

**TERRORISM, COUNTERTERRORISM AND  
BIOLOGICAL WEAPONS**

**APRIL 1, 1997**

## **SECTION 1: DOCUMENTS FROM THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)**

THE DOCUMENTS IN THIS SECTION OF THE BIBLIOGRAPHY ARE AVAILABLE FROM THE NATIONAL TECHNICAL INFORMATION SERVICE, TECHNOLOGY ADMINISTRATION, SPRINGFIELD, VA 22161. TELEPHONE: (703) 487-4650 [[HTTP://WWW.NTIS.GOV](http://www.ntis.gov)]

## **SECTION 2: DOCUMENTS FROM VARIOUS SOURCES**

UNLESS OTHERWISE NOTED THE DOCUMENTS IN THIS SECTION ARE AVAILABLE FROM THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC), 8725 JOHN J. KINGMAN ROAD, SUITE 0944, FORT BELVOIR, VA 22060-6218. TELEPHONE: 1-800-CAL-DTIC (225-3842) [[HTTP://WWW.DTIC.MIL](http://www.dtic.mil)]

## **SECTION 1: DOCUMENTS FROM THE NATIONAL TECHNICAL INFORMATION SERVICE**

**NOTE: THE DOCUMENTS IN THIS SECTION OF THE BIBLIOGRAPHY ARE AVAILABLE FROM THE NATIONAL TECHNICAL INFORMATION SERVICE, TECHNOLOGY ADMINISTRATION, SPRINGFIELD, VA 22161. TELEPHONE: (703) 487-4650 [HTTP://WWW.NTIS.GOV]**

**Available from NTIS; Tel (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: 842478  
-- 2 - FIELDS AND GROUPS: 15/6.3  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: ARMY BIOLOGICAL LABS FREDERICK MD  
-- 6 - UNCLASSIFIED TITLE: BIOLOGICAL WARFARE.  
-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
--10 - PERSONAL AUTHORS: SOUZE MEDINA, DARCY DE  
--11 - REPORT DATE: , 1968  
--12 - PAGINATION: 11P MEDIA COST: \$ 6.00 PRICE CODE: AA  
--14 - REPORT NUMBER: TRANS-120  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--21 - SUPPLEMENTARY NOTE: TRANS. OF MONO. ARCHIVES BRASILEIROS DE  
-- MEDICINA NAVAL, N.P. 1956 P4731-4744.  
--23 - DESCRIPTORS: , (\*BIOLOGICAL WARFARE, THREAT EVALUATION),  
-- HISTORY, HAZARDS, COUNTERMEASURES, PROTECTION, DECONTAMINATION,  
-- SABOTAGE, DISTRIBUTION, IDENTIFICATION, THERAPY, ANOMALIES, BRAZIL.  
--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
--25 - IDENTIFIERS: TRANSLATIONS.  
--26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED  
--27 - ABSTRACT: THE DOCUMENT DISCUSSES THE PROS AND CONS OF BIOLOGICAL  
-- WARFARE, INCLUDING DECISION-MAKING, SAFETY PROCEDURES DURING SUCH  
-- ATTACKS, EFFECTIVENESS IN CONDUCTING ATTACKS, AND POSSIBLE RESULTS.  
--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
--29 - INITIAL INVENTORY: 1  
--30 - ANNOTATION: BIOLOGICAL WARFARE--TRANSLATION.  
--33 - LIMITATION CODES: 1  
--35 - SOURCE CODE: 036550  
--36 - ITEM LOCATION: DTIC/NTIS  
--40 - GEOPOLITICAL CODE: 2406  
--41 - TYPE CODE: A  
--43 - IAC DOCUMENT TYPE:  
--49 - AUTHORITY FOR CHANGE: ST-A BDRL LTR, 13 SEP 71  
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**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A114399  
2 - FIELDS AND GROUPS: 5/5, 15/6.3  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: ARMY SCIENCE BOARD WASHINGTON DC  
-- 6 - UNCLASSIFIED TITLE: THE CHALLENGE OF TERRORISM TO THE MILITARY.  
-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
-- 9 - DESCRIPTIVE NOTE: FINAL REPT.,  
--10 - PERSONAL AUTHORS: KUPPERMAN, ROBERT H. ;  
--11 - REPORT DATE: MAR , 1982  
--12 - PAGINATION: 16P MEDIA COST: \$ 6.00 PRICE CODE: AA  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--23 - DESCRIPTORS: \*TERRORISM, WEAPONS, BIOLOGICAL WARFARE, CHEMICAL  
-- WARFARE, COUNTERMEASURES  
--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED

--27 - ABSTRACT: SPECIFIC ITEMS ADDRESSED ARE PAST AND FUTURE TERRORISM  
-- CONCERNS, INCLUDING TERRORIST INCIDENTS, PROBLEMS OF HOSTAGES,  
-- TERRORIST ARSENALS, PLAUSIBILITY OF MASS DESTRUCTION TERRORISM,  
-- CONVENTIONAL WEAPONS, UNCONVENTIONAL WEAPONS, BACTERIOLOGICAL  
-- WARFARE AS A TERRORIST WEAPON, CHEMICAL WARFARE AGENTS AND  
-- TECHNOLOGICAL CHALLENGES AHEAD.  
--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
--29 - INITIAL INVENTORY: 12  
--33 - LIMITATION CODES: 1  
--34 - SOURCE SERIES: F  
--35 - SOURCE CODE: 411068  
--36 - ITEM LOCATION: DTIC/NTIS  
--40 - GEOPOLITICAL CODE: 1100  
--41 - TYPE CODE: A  
--43 - IAC DOCUMENT TYPE:  
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**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A147748  
-- 2 - FIELDS AND GROUPS: 5/1, 5/5, 15/6.7  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: ARMY COMMAND AND GENERAL STAFF COLL FORT  
-- LEAVENWORTH KS  
-- 6 - UNCLASSIFIED TITLE: THE PUBLIC IMAGE OF THE MILITARY AS  
-- REFLECTED IN LEADING MAGAZINES, (1982-1983).  
-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
-- 9 - DESCRIPTIVE NOTE: MASTER'S THESIS,  
--10 - PERSONAL AUTHORS: BRUENING,W. S. ;  
--11 - REPORT DATE: JUN 01, 1984  
--12 - PAGINATION: 118P MEDIA COST: \$ 11.00 PRICE CODE: AB  
--18 - MONITOR ACRONYM: SBI  
--19 - MONITOR SERIES: AD-E751 155  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--23 - DESCRIPTORS: \*PUBLIC OPINION, \*MILITARY FORCES(UNITED STATES),  
-- ATTITUDES(PSYCHOLOGY), PERIODICALS, MASS MEDIA, SURVEYS,  
-- STATISTICAL ANALYSIS, ALL VOLUNTEER, ARMS CONTROL, CHEMICAL WARFARE,  
-- BIOLOGICAL WARFARE, TERRORISM, RESERVE OFFICER TRAINING CORPS,  
-- MILITARY EQUIPMENT, WEAPONS, MILITARY PERSONNEL, LEADERSHIP,  
-- MILITARY TRAINING, COMBAT READINESS, WOMEN, EUROPE, LATIN AMERICA,  
-- MIDDLE EAST, PRISONERS OF WAR, HISTORY, MILITARY BUDGETS, THESES  
--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
--25 - IDENTIFIERS: \*PUBLIC IMAGE, \*MAGAZINES, \*CONTENT ANALYSIS,  
-- DRAFT, DEFENSE EXPENDITURES, SPECIAL FORCES, VIETNAM WAR, GRENADA,  
-- VETERANS, MILITARY HISTORY  
--26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED  
--27 - ABSTRACT: THIS PAPER DETERMINED THE PUBLIC IMAGE OF THE U.S.  
-- MILITARY AS REFLECTED IN LEADING MAGAZINES AND COMPARED THE RESULTS  
-- WITH THE PUBLIC IMAGE OF THE MILITARY DETERMINED IN A 1971 STUDY.  
-- THE 1982 AND 1983 ISSUES OF TWENTY-ONE LEADING MAGAZINES WERE  
-- REVIEWED FOR NEWS ITEMS ON THE MILITARY. THE NEWS ITEMS WERE PLACED  
-- INTO DIFFERENT MILITARY SUBJECT AREAS (PERSONNEL, VIETNAM WAR,  
-- GRENADA, ROTC, ETC.) AND JUDGED FAVORABLE, UNFAVORABLE, BALANCED,  
-- OR NEUTRAL. THE COMPOSITE RESULTS OF THIS TWO-YEAR STUDY REVEALED  
-- THAT THE PUBLIC IMAGE OF THE MILITARY WAS MORE FAVORABLE THAN  
-- UNFAVORABLE. 35.9% OF THE ITEMS REVIEWED WERE FAVORABLE WHILE 25.4%  
-- WERE UNFAVORABLE. THE RATIO OF FAVORABLE ITEMS TO UNFAVORABLE ITEMS

-- WAS L.0:07. THE RESULTS OF THIS STUDY SHOW A SIGNIFICANT FAVORABLE  
-- INCREASE IN THE PUBLIC IMAGE OF THE MILITARY COMPARED TO THE  
-- RESULTS OF THE 1971 STUDY. THAT THREE - YEAR STUDY REVEALED THAT 43.  
-- 7% OF THE NEWS ITEMS ON THE MILITARY WERE UNFAVORABLE WHILE 30.9%  
-- WERE FAVORABLE. THE 1971 STUDY FAVORABLE TO UNFAVORABLE RATIO WAS L.  
-- 0:L.4. AN ANALYSIS OF THE INDIVIDUAL MILITARY SUBJECT AREAS  
-- REVEALED TWO TOPICS THAT RECEIVED CONSIDERABLE PRESS ATTENTION AND  
-- THAT REFLECTED AN UNFAVORABLE PUBLIC IMAGE OF THE MILITARY IN THE  
-- MAGAZINES ANALYZED. THESE WERE DEFENSE BUDGET/SPENDING AND  
-- LEADERSHIP. (AUTHOR)  
--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
--29 - INITIAL INVENTORY: 2  
--33 - LIMITATION CODES: 1  
--35 - SOURCE CODE: 037260  
--36 - ITEM LOCATION: DTIC/NTIS  
--40 - GEOPOLITICAL CODE: 2002  
--41 - TYPE CODE: A  
--43 - IAC DOCUMENT TYPE:  
--\*\*\*\*\*

**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A220598  
2 - FIELDS AND GROUPS: 15/6.3, 15/6.7  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: RAND CORP SANTA MONICA CA  
-- 6 - UNCLASSIFIED TITLE: TERRORISTS AND THE POTENTIAL USE OF  
-- BIOLOGICAL WEAPONS: A DISCUSSION OF POSSIBILITIES.  
-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
-- 9 - DESCRIPTIVE NOTE: INTERIM REPT.,  
--10 - PERSONAL AUTHORS: SIMON, J.  
--11 - REPORT DATE: DEC , 1989  
--12 - PAGINATION: 33P MEDIA COST: \$ 6.00 PRICE CODE: AA  
--14 - REPORT NUMBER: RAND/R-3771-AFMIC  
--15 - CONTRACT NUMBER: MDA903-86-0059  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--23 - DESCRIPTORS: \*BIOLOGICAL WARFARE, \*THREAT EVALUATION,  
-- \*TERRORISM, BARRIERS, BIOLOGICAL AGENTS, CONFLICT, FINANCE,  
-- STRATEGY, TERRORISTS, UNCONVENTIONAL WARFARE, WEAPONS.  
--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
--25 - IDENTIFIERS: \*RISK POTENTIAL, \*THREAT POTENTIAL.  
--26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED  
--27 - ABSTRACT: THIS REPORT CONSIDERS THE POTENTIAL FOR TERRORISTS TO  
-- USE BIOLOGICAL WEAPONS. IT DISCUSSES THE IMPLICATIONS OF RECENT  
-- TRENDS IN TERRORISM FOR THE FUTURE USE OF BIOLOGICAL AGENTS AND THE  
-- REASONS TERRORISTS MIGHT BE MOTIVATED TO USE THEM. IT THEN  
-- IDENTIFIES SEVERAL CONSTRAINTS THAT INHIBIT TERRORISTS FROM  
-- VENTURING INTO THIS NEW TYPE OF CONFLICT AND THE FACTORS THAT COULD  
-- BREAK DOWN THESE CONSTRAINTS. FINALLY, IT ESTABLISHES SOME BROAD  
-- CHARACTERISTICS THAT COULD IDENTIFY THE TYPES OF TERRORIST GROUPS  
-- THAT MIGHT BE MORE LIKELY THAN OTHERS TO USE BIOLOGICAL WEAPONS.  
-- THE FINDINGS SUGGEST THAT, SINCE THE TECHNOLOGICAL, LOGISTICAL, AND  
-- FINANCIAL BARRIERS TO THE USE OF BIOLOGICAL AGENTS ARE NOT  
-- INSURMOUNTABLE, A KEY DETERMINANT IN THE POTENTIAL USE OF SUCH  
-- AGENTS WILL BE THE WILLINGNESS OF TERRORISTS TO ENGAGE IN THIS NEW  
-- TYPE OF VIOLENCE. THEREFORE, EFFORTS TO IMPROVE INTELLIGENCE  
-- REGARDING TERRORIST GROUP STRATEGIES AND CAPABILITIES WILL BECOME

-- INCREASINGLY CRITICAL IN THE FUTURE. KEYWORDS: TERRORISM;  
-- BIOLOGICAL WARFARE; UNCONVENTIONAL WARFARE. (KT)  
--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
--29 - INITIAL INVENTORY: 2  
--33 - LIMITATION CODES: 1  
--35 - SOURCE CODE: 296600  
--36 - ITEM LOCATION: DTIC/NTIS  
--40 - GEOPOLITICAL CODE: 0628  
--41 - TYPE CODE: W  
--43 - IAC DOCUMENT TYPE:  
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**-Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A273038  
2 - FIELDS AND GROUPS: 15/6.3  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: ARMY COMMAND AND GENERAL STAFF COLL FORT  
-- LEAVENWORTH KS  
-- 6 - UNCLASSIFIED TITLE: A DETERMINATION OF THE MILITARY  
-- SIGNIFICANCE OF MODERN BIOLOGICAL WARFARE.  
-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
-- 9 - DESCRIPTIVE NOTE: MASTER'S THESIS AUG 92-JUN 93,  
--10 - PERSONAL AUTHORS: CLEMENT, DAVID L.  
--11 - REPORT DATE: MAY 09, 1993  
--12 - PAGINATION: 135P MEDIA COST: \$ 11.00 PRICE CODE: AB  
--18 - MONITOR ACRONYM: XA  
--19 - MONITOR SERIES: USACGSC  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--23 - DESCRIPTORS: \*BIOLOGICAL WARFARE, \*MILITARY REQUIREMENTS,  
-- ANTHRAX, ATTACK, BACKGROUND, BATTLEFIELDS, COUNTERMEASURES,  
-- DEPLOYMENT, DESERTS, DESTRUCTION, MASS, PLAGUES, PREDICTIONS,  
-- SCENARIOS, STORMS, TERRORISM, VULNERABILITY, WARFARE, WEAPONS,  
-- MILITARY FORCES(UNITED STATES), DATA BASES, DISEASES, HUMAN  
-- IMMUNODEFICIENCY VIRUSES, ACQUIRED IMMUNE DEFICIENCY SYNDROME.  
--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
--25 - IDENTIFIERS: DESERT STORM OPERATIONS.  
--26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED  
--27 - ABSTRACT: THIS STUDY DETERMINES THE MILITARY SIGNIFICANCE OF  
-- PLAUSIBLE BIOLOGICAL WARFARE (BW) ATTACK SCENARIOS ON CONTEMPORARY  
-- MILITARY FORCES. DATA HAS BEEN GATHERED ON THE HISTORIC DIMENSIONS  
-- AS WELL AS THE PRESENT STATE OF AND THE CURRENT TRENDS IN BW. THIS  
-- BACKGROUND PROVIDES THE READER WITH A BASIC UNDERSTANDING OF BW. IT  
-- ALSO ESTABLISHES A STRONG FOUNDATION ON WHICH TO BASE PREDICTIONS  
-- OF MILITARY VULNERABILITIES TO THE EFFECTS OF BW AND THE CONDITIONS  
-- UNDER WHICH BW COULD BE EMPLOYED. THIS STUDY CONCLUDES THAT  
-- ALTHOUGH TACTICAL BATTLEFIELD USE OF BW IS HIGHLY UNLIKELY, THERE  
-- ARE CONDITIONS AND CIRCUMSTANCES IN WHICH U.S. FORCES COULD BE  
-- SUBJECTED TO BW ATTACKS. SEVERAL PLAUSIBLE SCENARIOS DEMONSTRATE  
-- HOW BW COULD BE EFFECTIVELY EMPLOYED AGAINST U.S. FORCES DURING A  
-- DESERT STORM TYPE DEPLOYMENT. UNDER CERTAIN CONDITIONS, CURRENT U.S.  
-- BIOLOGICAL WARFARE COUNTERMEASURES WOULD PROVE INADEQUATE IN THE  
-- EVENT OF A BW ATTACK. BIOLOGICAL WARFARE, BW, GERM WARFARE,  
-- TERRORISM, BIOTERRORISM, ANTHRAX, PLAGUE, PROLIFERATION, WEAPONS OF  
-- MASS DESTRUCTION  
--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
--29 - INITIAL INVENTORY: 2

--33 - LIMITATION CODES: 1  
--35 - SOURCE CODE: 037260  
--36 - ITEM LOCATION: DTIC/NTIS  
--40 - GEOPOLITICAL CODE: 2002  
--41 - TYPE CODE: A  
--43 - IAC DOCUMENT TYPE:  
--\*\*\*\*\*

**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A283936  
-- 2 - FIELDS AND GROUPS: 15/6.7, 15/3, 5/1, 5/9  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: ARMY WAR COLL STRATEGIC STUDIES INST CARLISLE  
-- BARRACKS PA  
-- 6 - UNCLASSIFIED TITLE: RESPONDING TO TERRORISM ACROSS THE  
-- TECHNOLOGICAL SPECTRUM.  
-- 9 - DESCRIPTIVE NOTE: FINAL REPT.,  
--10 - PERSONAL AUTHORS: HOFFMANAN, BRUCE  
--11 - REPORT DATE: JUL 15, 1994  
--12 - PAGINATION: 41P MEDIA COST: \$ 6.00 PRICE CODE: AA  
--18 - MONITOR ACRONYM: XA  
--19 - MONITOR SERIES: AWC/SSI  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--23 - DESCRIPTORS: \*TERRORISM, \*UNCONVENTIONAL WARFARE, BOMBS,  
-- CONVENTIONAL WARFARE, FERTILIZERS, ADVANCED WEAPONS, GUERRILLA  
-- WARFARE, INSURGENCY, TARGETS, LOW INTENSITY CONFLICT, TERRORISTS,  
-- UNITED STATES, VIRUSES, WARFARE, NUCLEAR WARFARE, CHEMICAL WARFARE,  
-- BIOLOGICAL WARFARE, VULNERABILITY, THREAT EVALUATION, VIRUS  
-- DISEASES.  
--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
--25 - IDENTIFIERS: LPN-TRADOC-ACN-94020, RMA(REVOLUTION IN MILITARY  
-- AFFAIRS), REVOLUTION IN MILITARY AFFAIRS, TECHNOLOGICAL WARFARE,  
-- AMATEUR TERRORISTS, PROFESSIONAL TERRORISTS, POLITICAL IDEOLOGIES,  
-- RELIGIOUS IDEOLOGIES, FERTILIZER BOMBS.  
--26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED  
--27 - ABSTRACT: THE AUTHOR EXAMINES THE CHANGING NATURE OF TERRORISM.  
-- IN COMPARISON TO PROFESSIONAL, TERRORISTS PURSUING SPECIFIC  
-- POLITICAL OR IDEOLOGICAL OBJECTIVES, TODAY'S AMATEURS OFTEN ACT  
-- FROM RELIGIOUS OR RACIAL CONVICTIONS. THEIR OBJECTIVE MAY BE TO  
-- KILL LARGE NUMBERS OF PEOPLE. THEY ARE LESS PREDICTABLE AND,  
-- THEREFORE, MORE DIFFICULT TO APPREHEND BEFORE THE INCIDENT OCCURS,  
-- AND HAVE LETHAL DEVICES RANGING FROM THE RELATIVELY SIMPLE  
-- FERTILIZER BOMB TO BIOLOGICALLY-ALTERED VIRUSES. SINCE THE UNITED  
-- STATES WILL REMAIN AN ATTRACTIVE TARGET, WE NEED TO UNDERSTAND AND  
-- PREPARE FOR THIS NEW KIND OF TERRORISM. TERRORISM, REVOLUTION IN  
-- MILITARY AFFAIRS, INSURGENCY, GUERRILLA WARFARE, TECHNOLOGICAL  
-- WARFARE, CONVENTIONAL WARFARE, AMATEUR TERRORIST, PROFESSIONAL  
-- TERRORIST  
--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
--29 - INITIAL INVENTORY: 1  
--33 - LIMITATION CODES: 1  
--34 - SOURCE SERIES: F  
--35 - SOURCE CODE: 390230  
--36 - ITEM LOCATION: DTIC/NTIS  
--40 - GEOPOLITICAL CODE: 4219  
--41 - TYPE CODE: A



--43 - IAC DOCUMENT TYPE:

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**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A286301  
-- 2 - FIELDS AND GROUPS: 15/6.3, 6/15, 6/5, 15/3  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: ARMY MEDICAL RESEARCH INST OF INFECTIOUS DISEASES  
FORT DETRICK MD  
-- 6 - UNCLASSIFIED TITLE: DEFENSE AGAINST TOXIN WEAPONS,  
-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
--10 - PERSONAL AUTHORS: FRANZ, DAVID R.  
--11 - REPORT DATE: , 1994  
--12 - PAGINATION: 57P MEDIA COST: \$ 6.00 PRICE CODE: AA  
--18 - MONITOR ACRONYM: XA  
--19 - MONITOR SERIES: USAMRIID  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--23 - DESCRIPTORS: \*BIOLOGICAL AGENTS, \*TOXINS AND ANTITOXINS,  
-- \*DEFENSE SYSTEMS, \*WEAPONS, PROTECTION, MANUALS, MILITARY PERSONNEL,  
-- TERRORISM, TOXICITY, THREATS, INFORMATION PROCESSING, INFECTIOUS  
-- DISEASES, MEDICAL SERVICES, COUNTERMEASURES, PROTECTIVE MASKS,  
-- DECONTAMINATION.  
--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
--27 - ABSTRACT: THE PURPOSE OF THIS MANUAL IS TO PROVIDE BASIC  
-- INFORMATION ON BIOLOGICAL TOXINS TO MILITARY LEADERS AND HEALTH-  
-- CARE PROVIDERS AT ALL LEVELS TO HELP THEM MAKE INFORMED DECISIONS  
-- ON PROTECTING THEIR TROOPS FROM TOXINS. MUCH OF THE INFORMATION  
-- CONTAINED HEREIN WILL ALSO BE OF INTEREST TO INDIVIDUALS CHARGED  
-- WITH COUNTERING DOMESTIC AND INTERNATIONAL TERRORISM. WE TYPICALLY  
-- FEAR WHAT WE DO NOT UNDERSTAND  
--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
--33 - LIMITATION CODES: 1  
--35 - SOURCE CODE: 405039  
--36 - ITEM LOCATION: DTIC/NTIS  
--40 - GEOPOLITICAL CODE: 2406  
--41 - TYPE CODE: A  
--43 - IAC DOCUMENT TYPE:

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**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A291072  
-- 2 - FIELDS AND GROUPS: 15/1, 15/6, 24/6  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA  
-- 6 - UNCLASSIFIED TITLE: THE DEFENSE SCIENCE STUDY GROUP, 1989-1991,  
-- VOLUME 1.  
-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
-- 9 - DESCRIPTIVE NOTE: SUMMARY REPT.,  
--10 - PERSONAL AUTHORS: LICATO, N. P.  
--11 - REPORT DATE: MAR , 1992  
--12 - PAGINATION: 339P MEDIA COST: \$ 11.00 PRICE CODE: AD  
--14 - REPORT NUMBER: IDA-P-2923-VOL-1  
--15 - CONTRACT NUMBER: MDA903-89-C-0003  
--18 - MONITOR ACRONYM: XT  
--19 - MONITOR SERIES: ARPA  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--23 - DESCRIPTORS: \*NATIONAL SECURITY, \*WASTE DISPOSAL, \*RADIOACTIVE

-- WASTES, \*ENVIRONMENTAL PROTECTION, \*BIOTECHNOLOGY, NUCLEAR WARFARE,  
 -- MILITARY FACILITIES, INTELLIGENCE, DEFENSE SYSTEMS, EDUCATION,  
 -- COMPOSITE MATERIALS, OPTICAL IMAGES, ALLOYS, CERAMIC MATERIALS,  
 -- FEASIBILITY STUDIES, INFRARED IMAGES, BIOLOGICAL WARFARE, CHEMICAL  
 -- WARFARE, POWER, NOISE REDUCTION, INDUSTRIAL PLANTS, TARGET  
 -- DETECTION, SITE INVESTIGATIONS, TACTICAL WEAPONS, SPACE OBJECTS,  
 -- SOLID PROPELLANT ROCKET ENGINES, TERRORISM, SCIENTISTS, STRATEGIC  
 -- AIR COMMAND.  
 --24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
 --25 - IDENTIFIERS: CLEAN UP, NUCLEAR WASTE DISPOSAL, BIOMETRICS  
 --26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED  
 --27 - ABSTRACT: THE DEFENSE SCIENCE STUDY GROUP (DSSG) IS A PROGRAM  
 -- SPONSORED BY THE DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)  
 AND MANAGED BY THE INSTITUTE FOR DEFENSE ANALYSES (IDA). THE  
 -- PURPOSE OF THE PROGRAM IS TO IDENTIFY SOME OF THE MOST TALENTED  
 -- YOUNG SCIENTISTS AND ENGINEERS FROM ACADEMIA AND EXPOSE THEM TO  
 -- ISSUES AND OPERATIONS RELATED TO NATIONAL SECURITY. BY  
 -- STRENGTHENING TIES BETWEEN THE SCIENTISTS AND ENGINEERS AND THE  
 -- NATIONAL SECURITY COMMUNITY IT IS HOPED THAT THE GOVERNMENT WILL BE  
 -- PROVIDED WITH A NEW SOURCE OF TECHNICAL ADVISORS AND INFORMED  
 -- CRITICS. INDIVIDUALS SPEND ABOUT 20 DAYS PER YEAR FOR 2 (OR 3)  
 YEARS RECEIVING BRIEFINGS BY DISTINGUISHED SPEAKERS; VISITING  
 -- LABORATORIES, INTELLIGENCE ORGANIZATIONS, AND MILITARY,  
 -- MANUFACTURING, AND INDUSTRIAL FACILITIES; AND CONDUCTING STUDIES ON  
 -- DEFENSE-RELATED TOPICS. A GROUP OF MENTORS WHO HAVE DISTINGUISHED  
 -- CAREERS IN DEFENSE, INDUSTRY, OR ACADEMIA PROVIDE GUIDANCE TO THE  
 -- PROGRAM. THIS REPORT SUMMARIZES THE PROGRAM'S ACTIVITIES FROM 1989-  
 -- 1991. -BKA  
 --28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
 --29 - INITIAL INVENTORY: 2  
 --33 - LIMITATION CODES: 1  
 --34 - SOURCE SERIES: S  
 --35 - SOURCE CODE: 179350  
 --36 - ITEM LOCATION: DTIC/NTIS  
 --40 - GEOPOLITICAL CODE: 5108  
 --41 - TYPE CODE: W  
 --43 - IAC DOCUMENT TYPE:  
 --\*\*\*\*\*

**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A295257  
 -- 2 - FIELDS AND GROUPS: 5/4, 15/6.3  
 -- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
 -- 5 - CORPORATE AUTHOR: ARMY WAR COLL CARLISLE BARRACKS PA  
 -- 6 - UNCLASSIFIED TITLE: ENGAGEMENT AND DISARMAMENT: A U.S.  
 NATIONAL SECURITY STRATEGY FOR BIOLOGICAL WEAPONS OF MASS  
 -- DESTRUCTION.  
 -- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
 -- 9 - DESCRIPTIVE NOTE: STRATEGY RESEARCH PROJECT,  
 --10 - PERSONAL AUTHORS: MOILANEN, JON H.; MCINTYRE, ANDREW J., JR.;  
 -- JOHNSON, DOUHLAS V.  
 --11 - REPORT DATE: APR 18, 1995  
 --12 - PAGINATION: 59P MEDIA COST: \$ 6.00 PRICE CODE: AA  
 --18 - MONITOR ACRONYM: XA  
 --19 - MONITOR SERIES: USAWC  
 --20 - REPORT CLASSIFICATION: UNCLASSIFIED

--23 - DESCRIPTORS: \*WEAPONS, \*NATIONAL SECURITY, \*BIOLOGICAL WARFARE,  
 -- STABILITY, WARFARE, MILITARY STRATEGY, UNITED STATES, INTEGRATED  
 -- SYSTEMS, BIOLOGY, PERSIAN GULF, MASS, ASSAULT, DESTRUCTION,  
 -- CHEMICAL ORDNANCE, BIOTECHNOLOGY, TERRORISM, DISARMAMENT.  
 --24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
 --27 - ABSTRACT: THE SPECTER OF BIOLOGICAL WEAPONS -- ONE OF THE THREE  
 -- WEAPONS OF MASS DESTRUCTION (WMD) -- IS AN UNUSUAL AND  
 -- EXTRAORDINARY THREAT TO THE NATIONAL SECURITY OF THE UNITED STATES.  
 -- SINCE THE U.S. UNILATERALLY RENOUNCED BIOLOGICAL WARFARE IN 1969,  
 -- BIOTECHNOLOGY ADVANCES, AGGRESSIVE NATION-STATES, AND TERRORISM  
 -- HAVE COMPLICATED A PRECARIOUS BALANCE OF WORLD AND REGIONAL  
 -- STABILITY. U.S. SHORTFALLS IN BIOLOGICAL WARFARE PREPAREDNESS  
 -- DURING THE PERSIAN GULF WAR MAY CONVINCE POTENTIAL ADVERSARIES  
 -- THAT THE U.S. IS INCAPABLE OF PROTECTING ITS VITAL INTERESTS FROM  
 -- BIOLOGICAL ASSAULT. THIS PAPER EXAMINES THE MENACE OF BIOLOGICAL  
 -- WEAPONS AND GLOBAL CHALLENGES TO NONPROLIFERATION AND  
 -- COUNTERPROLIFERATION. ANALYSIS CONCLUDES THAT THE UNITED STATES  
 -- CAN DISSUADE, DETER, AND DEFEND AGAINST BIOLOGICAL WARFARE AND  
 -- TERRORISM WITH AN INTEGRATED NATIONAL SECURITY STRATEGY FOR  
 -- BIOLOGICAL WEAPONS ENGAGEMENT AND DISARMAMENT.  
 --28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
 --29 - INITIAL INVENTORY: 2  
 --33 - LIMITATION CODES: 1  
 --35 - SOURCE CODE: 403565  
 --36 - ITEM LOCATION: DTIC/NTIS  
 --40 - GEOPOLITICAL CODE: 4219  
 --41 - TYPE CODE: A  
 --43 - IAC DOCUMENT TYPE:  
 --\*\*\*\*\*

**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A306176  
 -- 2 - FIELDS AND GROUPS: 15/6.3  
 -- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
 -- 5 - CORPORATE AUTHOR: NAVAL POSTGRADUATE SCHOOL MONTEREY CA  
 -- 6 - UNCLASSIFIED TITLE: COUNTERPROLIFERATION OF BIOLOGICAL WEAPONS.  
 -- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
 -- 9 - DESCRIPTIVE NOTE: MASTER'S THESIS,  
 --10 - PERSONAL AUTHORS: COLLINS, RAYMOND P., JR  
 --11 - REPORT DATE: SEP , 1995  
 --12 - PAGINATION: 69P MEDIA COST: \$ 6.00 PRICE CODE: AA  
 --18 - MONITOR ACRONYM: XB  
 --19 - MONITOR SERIES: NPS  
 --20 - REPORT CLASSIFICATION: UNCLASSIFIED  
 --23 - DESCRIPTORS: \*BIOLOGICAL WARFARE, \*BIOLOGICAL WARFARE AGENTS,  
 -- NUCLEAR WEAPONS, BATTLEFIELDS, THESES, COLD WAR, CHEMICAL WARFARE,  
 -- MASS DESTRUCTION WEAPONS, STRATEGIC WARFARE, CHEMICAL ORDNANCE,  
 -- INFECTIOUS DISEASES, BIOTECHNOLOGY, TACTICAL WARFARE, SPECIAL  
 -- FORCES, IRAN, TERRORISM, COUNTERMEASURES, INTERNATIONAL LAW,  
 -- DETERRENCE.  
 --24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
 --25 - IDENTIFIERS: PROLIFERATION  
 --26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED  
 --27 - ABSTRACT: WHEN THE BIOLOGICAL WEAPONS CONVENTION OPENED FOR  
 -- SIGNATURE IN 1972, THE BATTLE AGAINST INFECTIOUS DISEASE APPEARED  
 -- TO HAVE BEEN WON AND THE BIOLOGICAL WARFARE PROGRAMS OF THE UNITED

-- STATES AND SOVIET UNION SEEMED TO BE IRRELEVANT IN THE GLOBAL  
 -- CONFLICT DOMINATED BY STRATEGIC NUCLEAR WEAPONS. THE END OF THE  
 -- COLD WAR, THE AIDS EPIDEMIC AND THE BIOTECHNOLOGY REVOLUTION HAVE  
 -- SHATTERED THE PARADIGM OF 1972. OFFENSIVE BIOLOGICAL WARFARE MAY  
 -- NOW BE A VIABLE THREAT. THE FIRST CHAPTER EVALUATES THE UTILITY OF  
 -- BIOLOGICAL WARFARE IN A TACTICAL BATTLEFIELD SCENARIO: A STRATEGIC  
 -- SCENARIO; AND A SPECIAL FORCES OR TERRORIST SCENARIO. THE SECOND  
 -- CHAPTER EXAMINES THE STAGES IN THE DEVELOPMENT OF AN OFFENSIVE  
 -- PROGRAM AND HOW THE BIOTECHNOLOGY REVOLUTION HAS FACILITATED THEM.  
 -- CHAPTER THREE EXAMINES THE DECISION TO USE BIOLOGICAL AND CHEMICAL  
 -- WEAPONS AND WHAT CAN BE DONE TO DETER THAT DECISION.  
 --28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
 --29 - INITIAL INVENTORY: 2  
 --33 - LIMITATION CODES: 1  
 --35 - SOURCE CODE: 251450  
 --36 - ITEM LOCATION: DTIC/NTIS  
 --40 - GEOPOLITICAL CODE: 0612  
 --41 - TYPE CODE: N  
 --43 - IAC DOCUMENT TYPE:  
 --\*\*\*\*\*

**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A307327  
 2 - FIELDS AND GROUPS: 15/6.3, 15/6.7  
 -- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
 -- 5 - CORPORATE AUTHOR: NAVAL WAR COLL NEWPORT RI JOINT MILITARY  
 -- OPERATIONS DEPT  
 -- 6 - UNCLASSIFIED TITLE: THE KING HAS NO CLOTHES: THE ROLE OF THE  
 -- MILITARY IN RESPONDING TO A TERRORIST CHEMICAL/BIOLOGICAL ATTACK.  
 -- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
 -- 9 - DESCRIPTIVE NOTE: FINAL REPT.,  
 --10 - PERSONAL AUTHORS: OSTERMAN, JOSEPH L.  
 --11 - REPORT DATE: JUN 14, 1996  
 --12 - PAGINATION: 25P MEDIA COST: \$ 6.00 PRICE CODE: AA  
 --18 - MONITOR ACRONYM: XB  
 --19 - MONITOR SERIES: NWC  
 --20 - REPORT CLASSIFICATION: UNCLASSIFIED  
 --23 - DESCRIPTORS: \*WEAPONS, \*BIOLOGICAL WARFARE, \*CHEMICAL WARFARE,  
 -- \*MASS DESTRUCTION WEAPONS, \*TERRORISM, WARFARE, DEPARTMENT OF  
 -- DEFENSE, GULFS, MARINE CORPS, UNITED STATES, DISASTERS, PREPARATION,  
 -- EMPLOYMENT, TASK FORCES, MASS, DESTRUCTION, SOILS, RESPONSE,  
 -- MISSIONS, CHEMICAL ORDNANCE, GB AGENT.  
 --24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
 --25 - IDENTIFIERS: TERRORISM, WMD(WEAPONS OF MASS DESTRUCTION),  
 -- FBI(FEDERAL BUREAU OF INVESTIGATION)  
 --26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED  
 --27 - ABSTRACT: THE USE OF SARIN BY THE AUM SHINRIKYO CULT IN THE TOKYO  
 -- SUBWAY ON 20 MARCH 1995 PROVED TO THE WORLD THAT TERRORISM HAD  
 -- CROSSED THE THRESHOLD OF WEAPONS OF MASS DESTRUCTION (WMD) USE.  
 -- IRAQ'S REVELATIONS OF BIOLOGICAL/CHEMICAL WEAPONS PREPARATIONS  
 -- DURING THE GULF WAR HAS SHOWN THE POTENTIAL FOR USE OF THESE  
 -- WEAPONS BY ROGUE STATES. THE UNITED STATES HAS BEGUN A PROGRAM OF  
 -- COUNTERPROLIFERATION IN ORDER TO PREEMPT THE USE OF WMD BY SUCH  
 -- ELEMENTS, HOWEVER, THE ABILITY TO RESPOND TO THE TERRORIST  
 -- EMPLOYMENT OF BIOLOGICAL/CHEMICAL WEAPONS IS GLARINGLY ABSENT.  
 -- GIVEN THE STRUCTURE, CAPABILITY AND TECHNICAL EXPERTISE IN THE

-- FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) AND THE FEDERAL BUREAU  
-- OF INVESTIGATION (FBI), THE DEPARTMENT OF DEFENSE (DOD) WILL BE  
-- TASKED TO CONDUCT THE RESPONSE TO SUCH AN INCIDENT. THE  
-- GEOGRAPHICAL COMMANDER IN CHIEF (CINC) AND THE APPOINTED JOINT TASK  
-- FORCE (JTF) COMMANDER WILL ULTIMATELY BE ASSIGNED THE RESPONSE  
-- MISSION. PLANNING, TRAINING AND COORDINATION IS REQUIRED TO DEVELOP  
-- A FORCE CAPABLE OF RESPONDING IN A TIMELY AND COORDINATED MANNER.  
-- THE RECENT INITIATIVE BY THE MARINE CORPS TO DEVELOP A BIO/CHEM  
-- RESPONSE UNIT IS A BEGINNING, BUT IS VERY LIMITED IN CAPABILITY.  
-- THE POTENTIAL FOR SUCH A DISASTER ON AMERICAN SOIL CAN NO LONGER BE  
-- IGNORED NOR CAN THE RESPONSE TO IT BE CONSIDERED 'TOO HARD'.

--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED

--29 - INITIAL INVENTORY: 2

--33 - LIMITATION CODES: 1

--34 - SOURCE SERIES: F

--35 - SOURCE CODE: 429792

--36 - ITEM LOCATION: DTIC/NTIS

--40 - GEOPOLITICAL CODE: 4401

--41 - TYPE CODE: N

--43 - IAC DOCUMENT TYPE:

--\*\*\*\*\*

**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A311682

-- 2 - FIELDS AND GROUPS: 5/4, 15/6

-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED

-- 5 - CORPORATE AUTHOR: NAVAL WAR COLL NEWPORT RI

-- 6 - UNCLASSIFIED TITLE: THE IRANIAN THREAT: KEY CONCERNS FOR THE  
-- COMBATANT COMMANDER IN RESPONSE.

-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED

-- 9 - DESCRIPTIVE NOTE: FINAL REPT.,

--10 - PERSONAL AUTHORS: JASPER, SCOTT

--11 - REPORT DATE: MAR 05, 1996

--12 - PAGINATION: 27P MEDIA COST: \$ 6.00 PRICE CODE: AA

--18 - MONITOR ACRONYM: XB

--19 - MONITOR SERIES: NWC

--20 - REPORT CLASSIFICATION: UNCLASSIFIED

--23 - DESCRIPTORS: \*RESPONSE, \*THREAT EVALUATION, \*MILITARY

-- COMMANDERS, \*IRAN, \*POLITICAL NEGOTIATIONS, GUIDED MISSILES, DIESEL

-- ENGINES, STABILITY, IRAQ, MILITARY STRATEGY, THEATER LEVEL

-- OPERATIONS, POLICIES, NATIONAL SECURITY, EXPORTS, MILITARY AIRCRAFT,  
-- ECONOMICS, GOVERNMENT(FOREIGN), ISLAM, MILITARY FORCES(FOREIGN),

-- ATTACK, POLITICAL ALLIANCES, POPULATION, AIR STRIKES, MILITARY

-- CAPABILITIES, BIOLOGICAL WARFARE, ACCESS, ELECTRIC POWER, CHEMICAL

-- ORDNANCE, OILS, SUBMARINES, TERRORISM, RELIGION, ADVANCED WEAPONS,

-- PETROLEUM PRODUCTS, LIQUEFIED GASES, STRATEGIC AREAS, MILITARY ART.

--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED

--25 - IDENTIFIERS: OPERATIONAL ART, REARMAMENT

--26 - IDENTIFIER CLASSIFICATION: UNCLASSIFIED

--27 - ABSTRACT: IN THE AFTERMATH OF THE GULF WAR WITH IRAQ, THE ISLAMIC  
-- REPUBLIC OF IRAN HAS EMERGED AS THE GREATEST LONG-TERM THREAT TO  
-- PEACE AND STABILITY IN THE CENTRAL REGION. THROUGH PURCHASE OF A  
-- WIDE RANGE OF HIGH-TECH WEAPONS, IRAN NOW HAS A FORMIDABLE MILITARY  
-- FORCE CAPABLE OF INFLUENCING GULF ECONOMIC POLICY. HOWEVER, IN THE  
-- EVENT OF IRANIAN AGGRESSION, THE UNITED STATES CENTRAL COMMAND  
-- STANDS READY TO DEFEND VITAL U.S. INTERESTS IN THE MIDDLE EAST. THE

-- NATIONAL STRATEGY OF IRAN IS BOUND BY THE RELIGIOUS TENETS OF ISLAM  
-- AND AN OIL BASED ECONOMY STRUGGLING TO SUPPORT A POPULATION WHICH  
-- HAS EXPLODED OVER THE PAST SIXTEEN YEARS. IRAN SEEKS TO BUILD  
-- GLOBAL ALLIANCES FOR EXPORT OF OIL AND LIQUID PETROLEUM GAS WHILE  
-- CONTINUING SUPPORT FOR ISLAMIC COMMUNITIES UNDER ATTACK. IRAN  
-- PERCEIVES THE U.S. AND THE EMERGING REGIONAL ORDER TO BE THE  
-- GREATEST THREAT TO THE REPUBLIC'S EXISTENCE AND, IN RESPONSE, HAS  
-- BOUGHT FAST ATTACK MISSILE PATROL BOATS, DIESEL ELECTRIC SUBMARINES,  
-- BALLISTIC MISSILES AND LONG RANGE STRIKE AIRCRAFT. IRAN IS NOW  
-- CAPABLE OF CONDUCTING TERRORIST ACTIVITIES, DENYING INTERNATIONAL  
-- ACCESS TO THE GULF AND THREATENING THE REGION WITH CHEMICAL/  
-- BIOLOGICAL WEAPONS. THE COMBATANT COMMANDER'S THEATER STRATEGY MUST  
-- BE TAILORED TO RESPOND RAPIDLY AND DECISIVELY TO THE GROWING  
-- IRANIAN THREAT.

--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED

--29 - INITIAL INVENTORY: 2

--33 - LIMITATION CODES: 1

--34 - SOURCE SERIES: F

--35 - SOURCE CODE: 252900

--36 - ITEM LOCATION: DTIC/NTIS

--40 - GEOPOLITICAL CODE: 4401

--41 - TYPE CODE: N

--43 - IAC DOCUMENT TYPE:

--\*\*\*\*\*

**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: A320599

-- 2 - FIELDS AND GROUPS: 15/6.3, 15/6.7, 15/6.4

-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED

-- 5 - CORPORATE AUTHOR: NAVAL POSTGRADUATE SCHOOL MONTEREY CA

-- 6 - UNCLASSIFIED TITLE: THE THREAT OF RADIOLOGICAL TERRORISM.

-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED

-- 9 - DESCRIPTIVE NOTE: MASTER'S THESIS,

--10 - PERSONAL AUTHORS: WOODS, MATTHEW E.

--11 - REPORT DATE: SEP , 1996

--12 - PAGINATION: 126P MEDIA COST: \$ 11.00 PRICE CODE: AB

--18 - MONITOR ACRONYM: XB

--19 - MONITOR SERIES: NPS

--20 - REPORT CLASSIFICATION: UNCLASSIFIED

--23 - DESCRIPTORS: \*TERRORISM, \*RADIOLOGICAL WARFARE, NUCLEAR

-- WARFARE, NUCLEAR WEAPONS, TERRORISTS, VULNERABILITY, THESES, THREAT

-- EVALUATION, BIOLOGICAL WARFARE, CHEMICAL WARFARE, NUCLEAR POWER

-- PLANTS, RADIOACTIVE MATERIALS, MASS DESTRUCTION WEAPONS, DOSE RATE,

-- COUNTERTERRORISM, RADIOACTIVE CONTAMINATION, NATIONAL DEFENSE,

-- RADIOACTIVE ISOTOPES, PUBLIC SAFETY, HALF LIFE.

--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED

--27 - ABSTRACT: WMD TERRORISM IS A NEW CONCERN. THE UNITED STATES IS

-- PREPARING FOR THE POSSIBILITY OF TERRORIST ACTS INVOLVING CHEMICAL,

-- BIOLOGICAL, AND NUCLEAR WEAPONS, BUT THE SCOPE OF THESE

-- PREPARATIONS IS TOO NARROW. THIS THESIS ARGUES THAT RADIOLOGICAL

-- DEVICES ARE ALSO VIABLE WEAPONS OF MASS DESTRUCTION FOR TERRORISM.

-- RADIOLOGICAL WEAPONS ARE NOT NUCLEAR EXPLOSIVES; THEY ARE DESIGNED

-- TO DISPERSE RADIOACTIVE MATERIAL OVER AN AREA BY MECHANICAL MEANS

-- OR CONVENTIONAL EXPLOSIVES. THE POTENTIAL FOR RADIOLOGICAL

-- TERRORISM DEPENDS UPON ACCESS TO THE REQUIRED NUCLEAR MATERIALS AND

THE MOTIVATIONS FOR TERRORISTS TO USE RADIOLOGICAL WEAPONS.

-- RADIOLOGICAL WEAPONS CAN USE NON-WEAPONS GRADE NUCLEAR MATERIAL  
-- WHICH IS WIDELY ACCESSIBLE THROUGHOUT THE WORLD. THE MATERIAL IS  
-- UNDER A SPECTRUM OF PHYSICAL SECURITY SYSTEMS WITH LITTLE  
-- ACCOUNTABILITY AND VERIFICATION. RADIOLOGICAL WEAPONS CAN FURTHER  
-- TERRORIST OBJECTIVES BECAUSE THEY CAN BE USED TO CONTAMINATE  
-- INDIVIDUALS WITHOUT PRODUCING THE IMMEDIATE AND WIDESPREAD  
-- CATASTROPHIC DAMAGE NORMALLY ASSOCIATED WITH WMD. THIS PROSPECT OF  
-- CONTAMINATION IS ENOUGH TO INCITE THE PUBLIC'S FEAR OF THE NUCLEAR  
-- UNKNOWN OR NUCLEAR PHOBIA. TO COUNTER RADIOLOGICAL TERRORISM, THE U.  
-- S. GOVERNMENT SHOULD EXPAND INDICATIONS AND WARNING THROUGH EFFORTS  
-- TO MAXIMIZE THE INTELLIGENCE COMMUNITY'S HUMAN INTELLIGENCE ASSETS  
-- AND EXPLOIT OPEN SOURCE COLLECTION.

--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED

--29 - INITIAL INVENTORY: 2

--33 - LIMITATION CODES: 1

--35 - SOURCE CODE: 251450

--36 - ITEM LOCATION: DTIC/NTIS

--40 - GEOPOLITICAL CODE: 0612

--41 - TYPE CODE: N

--43 - IAC DOCUMENT TYPE:

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**Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>**

-- 1 - AD NUMBER: 638391

-- 2 - FIELDS AND GROUPS: 15/2, 15/6.3

-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED

-- 5 - CORPORATE AUTHOR: ARMY BIOLOGICAL LABS FREDERICK MD

-- 6 - UNCLASSIFIED TITLE: BIOLOGICAL WARFARE. NATURE AND  
-- CONSEQUENCES.

-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED

--10 - PERSONAL AUTHORS: FOTHERGILL, LEROY D. ;

--11 - REPORT DATE: FEB , 1963

--12 - PAGINATION: 8P MEDIA COST: \$ 6.00 PRICE CODE: AA

--20 - REPORT CLASSIFICATION: UNCLASSIFIED

--21 - SUPPLEMENTARY NOTE: PREPARED FOR PRESENTATION AT THE STATELINE  
COURSE ON MEDICAL ASPECTS OF CIVIL DEFENSE, FEBRUARY 1963.

--22 - LIMITATIONS (ALPHA): AVAILABILITY: PUBLISHED IN TEXAS STATE

-- JOURNAL OF MEDICINE V60 P8-14 JAN 1964.

--23 - DESCRIPTORS: (\*BIOLOGICAL WARFARE, THREAT EVALUATION),

-- BIOLOGICAL WARFARE AGENTS, WEAPON SYSTEMS, SABOTAGE, CIVIL DEFENSE

--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED

--27 - ABSTRACT: HUMANS, ANIMALS, BIRDS, INSECTS, AND EVEN CROPS ARE

-- SUBJECT TO THE EFFECTS OF BIOLOGICAL WARFARE. POSSIBLE AGENTS ARE

-- MENTIONED; METHODS OF DELIVERY AND MECHANISMS OF TRANSMITTING THEM

-- ARE REPORTED. IMMUNIZATION, TRAINED PERSONNEL, LABORATORY

-- FACILITIES, AND MORE RESEARCH ARE VITAL TO DEFENSE. (AUTHOR)

--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED

--29 - INITIAL INVENTORY: 19

--30 - ANNOTATION: REPRINT: BIOLOGICAL WARFARE. NATURE AND CONSEQUENCES.

--33 - LIMITATION CODES: 1 20

--35 - SOURCE CODE: 036550

--36 - ITEM LOCATION: DTIC/NTIS

--40 - GEOPOLITICAL CODE: 2406

--41 - TYPE CODE: A

--43 - IAC DOCUMENT TYPE:

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Available from NTIS; Tel: (703) 487-4650; <http://www.ntis.gov>

-- 1 - AD NUMBER: 333423  
-- 2 - FIELDS AND GROUPS: 5/1, 12/4, 15/2, 15/6.7  
-- 3 - ENTRY CLASSIFICATION: UNCLASSIFIED  
-- 5 - CORPORATE AUTHOR: AIR DEFENSE COMMAND ENT AFB COLO OFFICE OF  
-- OPERATIONS ANALYSIS  
-- 6 - UNCLASSIFIED TITLE: PASSIVE DEFENSE AND CLANDESTINE ATTACK  
-- 8 - TITLE CLASSIFICATION: UNCLASSIFIED  
--10 - PERSONAL AUTHORS: BALLOCH,JOHN;  
--11 - REPORT DATE: JUN , 1962  
--12 - PAGINATION: XXXXXX MEDIA COST: \$ 6.00 PRICE CODE: AA  
--14 - REPORT NUMBER: WP4  
--20 - REPORT CLASSIFICATION: UNCLASSIFIED  
--23 - DESCRIPTORS: \*NATIONAL DEFENSE, \*SABOTAGE, AIR DEFENSE COMMAND,  
-- AIR FORCE OPERATIONS, MILITARY OPERATIONS, BIOLOGICAL WARFARE,  
-- CHEMICAL WARFARE, CIVIL DEFENSE, OPERATIONS RESEARCH, PROTECTIVE  
-- COVERINGS, SECURE COMMUNICATIONS  
--24 - DESCRIPTOR CLASSIFICATION: UNCLASSIFIED  
--27 - ABSTRACT: IT WAS DETERMINED THROUGH INTERVIEWS, EXAMINATION OF  
-- MAPS SHOWING COMMUNICATION NETS (LAND LINES, MICROWAVE, RADIO, ETC.)  
-- , EXAMINATION OF PERTINENT DOCUMENTS OF STRUCTURES FOR VITAL OR  
-- WEAK POINTS, ETC. THE 26TH AIR DIVISION IS VULNERABLE TO COVERT  
-- ATTACK IN A VARIETY OF WAYS. (1) TOXIC AGENTS, PRESUMABLY G-TYPE  
-- AEROSOLS COULD BE INTRODUCED INTO AIR CONDITIONING INLETS FROM  
-- BEYOND GUARDED AREAS. (2) SAGE INSTALLATIONS HAVE VITAL POINTS  
-- SUCH AS COOLING TOWERS WHICH, IF DESTROYED BY HE EXPLOSIONS, COULD  
-- RENDER COMPUTERS USELESS. (3) THE ENTIRE SYSTEM UTILIZES HUNDREDS  
-- OF MILES OF LAND LINES WHICH COULD BE DESTROYED AT ANY POINT. LAND  
-- LINES ARE CENTRALIZED AT KEY COMMERCIAL FACILITIES MAKING THE WORK  
-- OF A SABOTEUR EASY. THE UNGUARDED GAPFILLER RADARS, SOME 50-70  
-- MILES FROM A PRIME RADAR SITE WOULD HAVE TO BE WRITTEN OFF.  
-- RECOMMENDATIONS INCLUDE EXPANDING GUARDED PERIMETERS AROUND ALL AIR  
-- DEFENSE INSTALLATIONS AND SEARCHING VEHICLES SUCH AS TRASH PICK-UP  
-- TRUCKS, FOOD AND FUEL DELIVERY TRUCKS, ETC. WITH RESPECT TO  
-- COMMUNICATIONS, LAND LINES (MICROWAVE, RADIO, MARS, PRIVATE RADIO  
-- SYSTEMS) SHOULD BE UTILIZED IN A WIDE VARIETY OF ALTERNATIVES.  
(AUTHOR)  
--28 - ABSTRACT CLASSIFICATION: UNCLASSIFIED  
--30 - ANNOTATION: PASSIVE DEFENSE AND CLANDESTINE ATTACK.  
--33 - LIMITATION CODES: 2  
--35 - SOURCE CODE: 270150  
--36 - ITEM LOCATION: DTIC  
--40 - GEOPOLITICAL CODE: 0803  
--41 - TYPE CODE: F  
--43 - IAC DOCUMENT TYPE:  
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## **SECTION 2: DOCUMENTS FROM VARIOUS SOURCES**

**NOTE: UNLESS OTHERWISE NOTED THE DOCUMENTS IN THIS SECTION ARE AVAILABLE FROM THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC), 8725 JOHN J. KINGMAN ROAD, SUITE 0944, FORT BELVOIR, VA 22060-6218. TELEPHONE: 1-800-CAL-DTIC (225-3842) [HTTP://WWW.DTIC.MIL]**

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Title: TOKYO SUBWAY HIT BY TOXIN.  
Author(s): EASTON, THOMAS  
Publication Date: 19950320  
Descriptive Note: NEWSPAPER ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: THE BALTIMORE SUN, MONDAY, MARCH 20, 1995, PAGES 1 AND 5A.  
Document Classification: U  
Pages: 1  
Corporate Author: BALTIMORE SUN (THE) BALTIMORE MD  
Abstract: THIS ARTICLE REPORTS ON THE TERRORIST ATTACK ON TOKYO'S SUBWAY DURING RUSH HOUR. TOXIC FUMES SPREAD THROUGH TOKYO'S CROWDED COMMUTER SUBWAY SYSTEM AT THE PEAK OF ITS MORNING RUSH HOUR, PARALYZING TRANSPORT, SICKENING THOUSANDS AND KILLING AT LEAST SIX PEOPLE, IN WHAT APPEARED TO BE A WELL-COORDINATED ATTACK ON THE CAPITAL. AUTHORITIES SAID THAT IT WAS "HIGHLY POSSIBLE" THAT THE GAS WAS SARIN.  
CBIAC Subject Keywords: CASUALTIES; CHEMICAL AGENTS; CIVIL DEFENSE; G AGENTS; GB; JAPAN; NERVE AGENTS; SABOTAGE; TERRORISM  
CBIAC Identifiers (Keywords): MASS TRANSPORTATION; SUBWAY; TOKYO

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Title: ARMS CONTROL TODAY, VOLUME 25, NUMBER 3, APRIL 1995.  
Author(s): BAKER, JAMES; DONNELLY, WARREN H.; TALBOT, STROBE; TUCKER, JONATHAN B.  
Publication Date: 19950401  
Descriptive Note: JOURNAL  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: ARMS CONTROL ASSOCIATION, 1726 M STREET NW, SUITE 201, WASHINGTON, DC 20036.  
Document Classification: U  
Pages: 28  
Corporate Author: ARMS CONTROL ASSOCIATION WASHINGTON DC  
Abstract: THIS ISSUE OF ARMS CONTROL TODAY CONTAINS THE FOLLOWING ARTICLES: TOKYO TERROR AND CHEMICAL ARMS CONTROL BY SPURGEON M. KEENY, JR.; US INTERESTS AND RUSSIAN REFORM BY DEPUTY SECRETARY OF STATE STROBE TALBOTT; STRENGTHENING THE CHEMICAL WEAPONS CONVENTION BY JONATHAN B. TUCKER; COPING WITH THE NEW CLEAR AND PRESENT DANGER FROM RUSSIA BY JAMES BAKER.  
CBIAC Subject Keywords: ARMS CONTROL; ARMS CONTROL POLICY; BIOLOGICAL AND TOXINS WEAPONS TREATY OF 1972; CHEMICAL WEAPONS; CHEMICAL WEAPONS CONVENTION; GB; INTERNATIONAL SECURITY; JAPAN; NERVE AGENTS; POLICY AND DOCTRINE; RUSSIA; TERRORISM; UNITED STATES  
CBIAC Identifiers (Keywords): SUBWAYS

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Title: FIRST WORD: WHY NBC DEFENSE AND TECHNOLOGY?  
Author(s): KOSLOW, EVAN E.  
Publication Date: 19860401  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: NBC DEFENSE AND TECHNOLOGY INTERNATIONAL, APRIL 1986, PAGES 4-5.  
Document Classification: U  
Pages: 2  
Corporate Author: NBC DEFENSE AND TECHNOLOGY NEW YORK NY  
Abstract: IT IS ESTIMATED THAT 16 NATIONS POSSESS SIGNIFICANT CHEMICAL WEAPONS AND CHEMICAL

WARFIGHTING CAPABILITIES AND THEIR PERHAPS EIGHT ADDITIONAL NATIONS HAVE AT LEAST SOME LIMITED CHEMICAL OFFENSIVE WARFIGHTING CAPABILITY. IN TOTAL, PERHAPS 24 NATIONS POSSESS CHEMICAL WEAPONS. THE USE OF CHEMICAL WEAPONS HAS ACCELERATED SUBSTANTIALLY IN THE PAST TEN YEARS, WITH FIVE CHEMICAL WARS IN THE PAST DECADE COMPARED WITH PERHAPS THREE CHEMICAL WARS DURING THE PREVIOUS 60 YEARS. IN ADDITION, CHEMICAL ARMS RANGING FROM TOXINS TO NERVE GAS HAVE BEEN INTRODUCED TO THE BATTLEFIELD. BIOLOGICAL WARFARE AGENTS HAVE PREVIOUSLY BEEN CONFINED TO NATURALLY OCCURRING AND WELL-CHARACTERIZED DISEASE AGENTS AND A GROUP OF LESSER-KNOWN TROPICAL FEVERS. HOWEVER, WITH THE ADVENT OF GENE ENGINEERING TECHNOLOGY, THE POTENTIAL FOR MORE COMPLEX, UNIQUE, HIGHLY TOXIC, AND PREVIOUSLY UNKNOWN AGENTS HAS BECOME A MAJOR CAUSE FOR CONCERN. NOT ONLY IS THE SPECTRUM OF POTENTIALLY LETHAL BIOLOGICAL ORGANISMS AND THEIR POSSIBLE MODES OF ACTION EXPANDED, BUT VACCINE TECHNOLOGY AND SUPPLIED MAY BE OBSOLETE. BIOLOGICAL WARFARE WAS ONLY RECENTLY CONSIDERED TO LACK A CREDIBLE MILITARY ROLE, SAVE RISKY SABOTAGE AND TERRORIST OPERATIONS, BUT IT MIGHT ONCE AGAIN BE ADAPTED TO NEW MILITARY MISSIONS. WITH THE RAPID INCREASE OF NBC THREAT HAS COME A REALIZATION THAT THE WESTERN WORLD'S DEFENSE INDUSTRIES MUST NOW, MORE THAN EVER, FOCUS ON THE PRODUCTION OF EQUIPMENT THAT CAN FIGHT AND SURVIVE IN THE NBC BATTLEFIELD. NBC PROTECTION CRITERIA WILL BE APPLIED TO ALL FUTURE COMBAT EQUIPMENT. THE US ARMY HAS ISSUED A COMPREHENSIVE REGULATION, AR 70-71, OUTLINING NBC SURVIVABILITY REQUIREMENTS.

CBIAC Subject Keywords: ARMY REGULATION 70-71; BIOLOGICAL AGENTS; CB CAPABILITY; CB STOCKPILES; CB THREAT; CHEMICAL AGENTS; DEFENSIVE CAPABILITY; NATO; NBC SURVIVABILITY; NUCLEAR WEAPONS; OFFENSIVE CAPABILITY; SABOTAGE; SWEDEN; SWITZERLAND

CBIAC Identifiers (Keywords): NUCLEAR RADIATION EFFECTS

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Title: PUGWASH NEWSLETTER. VOLUME 28, NUMBER 4, APRIL 1991.  
Author(s): CALOGERO, FRANCESCO  
Publication Date: 19910401  
Descriptive Note: NEWSLETTER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS, 11A AVENUE DE LA PAIX, 1202 GENEVA, SWITZERLAND.  
Document Classification: U  
Pages: 36  
Corporate Author: PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS GENEVA SWITZERLAND  
Abstract: PUGWASH MEETING #178 (16TH WORKSHOP OF THE PUGWASH STUDY GROUP ON CHEMICAL WARFARE) WAS ATTENDED BY 54 PARTICIPANTS FROM 21 COUNTRIES. THE AGENDA WAS: (1) CURRENT OBSTACLES TO A CHEMICAL WEAPONS CONVENTION (CWC); (2) NATIONAL LEGISLATION FOR FULFILLING REQUIREMENTS OF A CWC; (3) PRESENT STATUS OF CHEMICAL WEAPONS PROLIFERATION; (4) REPORT ON THE PUGWASH/SIPRI THIODIGLYCOL PROJECTS; (5) POSSIBLE FOLLOW-UP TECHNICAL PROJECT; (6) THE FORTHCOMING BIOLOGICAL WEAPONS CONVENTION CONFERENCE REVIEW; AND (7) THE THREAT OF CHEMICAL AND BIOLOGICAL WARFARE IN THE CONTEXT OF THE GULF CRISIS.  
CBIAC Subject Keywords: ARMS CONTROL; ARMS CONTROL AGENCIES; BIOLOGICAL AND TOXINS WEAPONS TREATY OF 1972; BIOLOGICAL TREATIES AND AGREEMENTS; CHEMICAL TREATIES AND AGREEMENTS; CHEMICAL WARFARE; CHEMICAL WEAPONS CONVENTION; IRAQ; KUWAIT; MIDDLE EAST; NEGOTIATION; OPERATION DESERT STORM; POLICYMAKERS; PROLIFERATION; TERRORISM; THIODIGLYCOL; TREATIES AND AGREEMENTS; UNITED NATIONS SECURITY COUNCIL

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Title: THE THREAT OF CHEMICAL AND BIOLOGICAL ATTACK.  
Author(s): MACKO, STEVE  
Publication Date: 19960827  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
EMERGENCY NET NEWS (ENN).  
Document Classification: U  
Corporate Author: EMERGENCY NET NEWS  
Abstract: THE UNITED STATES INTELLIGENCE COMMUNITY IS  
STUDYING THE THREAT OF CHEMICAL AND BIOLOGICAL  
TERRORIST ATTACKS AGAINST CIVILIAN TARGETS. IT IS  
HOPED THAT A PLAN CAN BE DEvised TO HELP PROTECT  
SOFT TARGETS SUCH AS SUBWAY SYSTEMS AND AIRPORTS.  
AS REPORTED SOME MONTHS AGO IN THIS PUBLICATION,  
THE US CONGRESS IS PLANNING TO MAKE MILITARY  
EXPERTISE AVAILABLE TO CITIES ACROSS THE US TO  
HELP MITIGATE SUCH AN ATTACK THAT UNTIL NOT LONG  
AGO WAS "UNTHINKABLE."  
CBIAC Subject Keywords: TERRORISM; SABOTAGE; CHEMICAL WEAPONS; BIOLOGICAL  
WEAPONS; CHEMICAL AGENTS; BIOLOGICAL AGENTS;  
UNITED STATES; DEPARTMENT OF ENERGY; DEPARTMENT OF  
DEFENSE; MEDICAL TREATMENT; MEDICAL SUPPORT TEAMS  
CBIAC Identifiers (Keywords): CENTRAL INTELLIGENCE AGENCY; CHEMICAL/BIOLOGICAL  
MEDICAL STRIKE TEAMS; NEST (NUCLEAR EMERGENCY  
SEARCH TEAM); CHEMICAL/BIOLOGICAL ANTI-TERRORISM  
TEAM; TECHNICAL ESCORT UNIT

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Title: THE ASA NEWSLETTER, 93-5, ISSUE NUMBER 38, OCTOBER 14, 1993.  
Author(s): BALALI-MOOD, MEHDI; CALDERON, FELIX; GEE, JOHN;  
GRIFFITHS, DEREK; OLIMPIO, GUIDO; PRICE, RICHARD;  
SCHNEIDER, FRED; THORNTON, WILLIAM  
Publication Date: 19931014  
Descriptive Note: JOURNAL  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: APPLIED SCIENCE AND  
ANALYSIS INC, PO BOX 17532, PORTLAND, MAINE 04101.  
Document Classification: U  
Pages: 20  
Corporate Author: APPLIED SCIENCE AND ANALYSIS INC PORTLAND ME  
Abstract: THE ASA NEWSLETTER IS PUBLISHED BIMONTHLY BY  
APPLIED SCIENCE AND ANALYSIS INC. IT IS INTENDED  
FOR THE PROFESSIONAL IN GOVERNMENT AND INDUSTRY  
WITH AN INTEREST IN NUCLEAR, BIOLOGICAL AND  
CHEMICAL DEFENSE, DISARMAMENT AND VERIFICATION;  
EMERGENCY AND DISASTER MEDICAL PLANNING;  
INDUSTRIAL HEALTH AND SAFETY; AND ENVIRONMENTAL  
PROTECTION. THIS ISSUES CONTAINS THE FOLLOWING  
ARTICLES: TOWARDS A NEW LOGIC IN REAL DISARMAMENT;  
THE CHEMICAL WEAPONS CONVENTION AND THE  
PREPARATORY COMMISSION; THERE WILL BE WAR;  
TERRORISM'S NEW REALITY; COLLECTIVE SUICIDE; CIVIL  
DEFENSE IN POLAND; PROGRESS IN ANTIDOTES FOR WAR  
GASES; THE FOURTH WILTON PARK ARMS CONTROL  
SEMINAR; THE EIGHTH INTERNATIONAL SIMULANT  
WORKSHOP; AND EUROSATORY 94.  
CBIAC Subject Keywords: ARMS CONTROL; CHEMICAL WEAPONS CONVENTION; MEDICAL  
TREATMENT; POLAND; POST-TREATMENT; PREPARATORY  
COMMISSION; TERRORISM

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Title: FEDERAL RESPONSE PLAN (FOR PUBLIC LAW 93-288, AS AMENDED).  
Publication Date: 19920401  
Descriptive Note: EMERGENCY RESPONSE PLAN  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: FEDERAL EMERGENCY  
MANAGEMENT AGENCY, WASHINGTON, DC.  
Document Classification: U  
Pages: 386  
Corporate Author: FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON DC  
Supplementary Note: INCLUDES CHANGES 1 THROUGH 10, ISSUED BETWEEN  
8/30/94 AND 9/16/96.  
Abstract: IN 1988, PUBLIC LAW 93-288 WAS AMENDED BY PUBLIC  
LAW 100-707 AND RETITLED AS THE ROBERT T. STAFFORD

DISASTER RELIEF AND EMERGENCY ASSISTANCE ACT (PUBLIC LAW 93-288, AS AMENDED). THE STAFFORD ACT PROVIDES THE AUTHORITY FOR THE FEDERAL GOVERNMENT TO RESPOND TO DISASTERS AND EMERGENCIES IN ORDER TO PROVIDE ASSISTANCE TO SAVE LIVES AND PROTECT PUBLIC HEALTH, SAFETY AND PROPERTY. THE PLAN DESCRIBES BASIC MECHANISMS AND STRUCTURES BY WHICH THE FEDERAL GOVERNMENT WILL MOBILIZE RESOURCES AND CONDUCT ACTIVITIES TO AUGMENT STATE AND LOCAL RESPONSE EFFORTS. THE PLAN ESTABLISHES AN ARCHITECTURE FOR A SYSTEMATIC, COORDINATED, AND EFFECTIVE FEDERAL RESPONSE. THE PURPOSE OF THE PLAN IS TO: ESTABLISH FUNDAMENTAL ASSUMPTIONS AND POLICIES; ESTABLISH A CONCEPT OF OPERATIONS THAT PROVIDES AN INTERAGENCY COORDINATION MECHANISM TO FACILITATE THE IMMEDIATE DELIVERY FEDERAL RESPONSE ASSISTANCE; INCORPORATE THE COORDINATION MECHANISMS AND STRUCTURES OF OTHER APPROPRIATE FEDERAL PLANS AND RESPONSIBILITIES INTO THE OVERALL RESPONSE; ASSIGN SPECIFIC FUNCTIONAL RESPONSIBILITIES TO APPROPRIATE FEDERAL DEPARTMENTS AND AGENCIES; AND IDENTIFY ACTIONS THAT PARTICIPATING FEDERAL DEPARTMENTS AND AGENCIES WILL TAKE IN THE OVERALL FEDERAL RESPONSE, IN COORDINATION WITH THE AFFECTED STATE.

CBIAC Subject Keywords: TERRORISM; SABOTAGE; US CONGRESS  
CBIAC Identifiers (Keywords): FEDERAL EMERGENCY MANAGEMENT AGENCY; FEMA; FEDERAL RESPONSE PLAN; DISASTER RELIEF

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AD Number: 841144  
Title: BIOLOGICAL WARFARE DEFENSE IN SWEDISH SECURITY POLICY,  
Site Holding: DT  
Author(s): JACKSEN, S.; MARKKULA, H.; TAMMELIN, L-E  
Publication Date: 19680801  
Descriptive Note: TRANSLATION  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Pages: 73  
Corporate Author: ARMY BIOLOGICAL LABS FREDERICK MD  
Supplementary Note: TRANSLATION OF FORSVARETS FORSKNINGSANSTALT, STOCKHOLM. RAPPORT (SWEDEN) A-1404-30 77P, SEP 67.  
Abstract: BIOLOGICAL WEAPONS ARE CHIEFLY DESCRIBED ACCORDING TO THEIR EFFECT. MANY BROAD AND EFFECTIVE ATTACKS ARE TECHNICALLY POSSIBLE; ATTACKS WITH LIMITED EFFECTS ARE ALSO POSSIBLE. SABOTAGE AND CLANDESTINE WARFARE CAN BE CONDUCTED WITH BIOLOGICAL WEAPONS. THE USE OF BIOLOGICAL WEAPONS IS FORBIDDEN, BUT POSSESSION IS PERMITTED. PROHIBITION AGAINST POSSESSION WOULD REQUIRE CONTROL. THE BASIS FOR DECIDING WHAT TYPE OF CONTROL IS GIVEN. A DEFENSE CAPABILITY CAN BE TO COMPEL THE ATTACKER SEEKING TO OBTAIN DECISIVE EFFECT TO DECIDE ON TYPES OF ATTACK WHICH ARE EASILY DETECTED AND WHICH EXPOSE THE ATTACKER. THIS LEVEL OF DEFENSE MAKES IT POSSIBLE TO LIMIT THE EFFECTS OF THE ATTACK SO THAT THE AIMS OF SAVING LIFE, SHORTENING THE TIME OF MEDICAL CARE, AND PERMITTING OPERATIONS CAN BE ACHIEVED. FOREWARNING, EARLY ALARM, IDENTIFICATION OF BIOLOGICAL WEAPONS, COMBAT OF EPIDEMICS, AND CARE OF THE SICK ARE FUNCTIONS WHICH SHOULD BE DIVIDED EQUALLY IN THE OVERALL DEFENSE. THE REST OF THE DEFENSE, INCLUDING DEFENSE AGAINST SABOTAGE AND SPECIFICALLY VACCINATION, SHOULD BE SET UP SO THAT THE LEVEL OF DEFENSE CORRESPONDS WITH THE FUNCTIONS OF THE UNIT. (AUTHOR)

DTIC Descriptors (Keywords): BIOLOGICAL WARFARE AGENTS; CONTROL; DECONTAMINATION; EARLY WARNING SYSTEMS; EPIDEMIOLOGY; IDENTIFICATION; PROTECTION; SWEDEN; VACCINES; (BIOLOGICAL WARFARE, DEFENSE SYSTEMS)

DTIC Identifiers (Keywords): TRANSLATIONS

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AD Number: A139169  
Title: MUNITIONS STORAGE CONCEPTS FOR USE IN FLAT  
TERRAIN. VOLUME 1. FACILITY DESIGN.  
Site Holding: DT  
Author(s): BLAYLOCK, N. W.; MORRIS, B. L.; NASH, P. T.;  
VARGAS, L. M.; WHITNEY, M. G.  
Publication Date: 19831201  
Descriptive Note: FINAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED.  
Document Classification: U  
Contract Number: DACA88-82-C-0013  
Pages: 214  
Corporate Author: SOUTHWEST RESEARCH INST SAN ANTONIO TX  
Abstract: THE RESULT OF THE STUDY IS PRELIMINARY DESIGN OF  
SIX FEASIBLE STORAGE COMPLEXES. BOTH ABOVE GROUND  
AND UNDERGROUND STRUCTURES ARE PROPOSED. THE  
SPECIAL CONSTRUCTION PRACTICES NECESSITATED BY THE  
HIGH WATER TABLE ARE ADDRESSED. EACH DESIGN IS  
CAPABLE OF CONTAINING THE HAZARDOUS EFFECTS OF AN  
INTERNAL EXPLOSION WITHIN THE BAY OF OCCURRENCE.  
THE FACILITIES ARE ALSO DESIGNED TO SURVIVE SUCH  
EXTERNAL THREATS AS DETONATION OF 300,000 POUNDS  
OF HIGH EXPLOSIVE 100 METERS AWAY FROM THE  
STRUCTURE, A DIRECT HIT BY A 500 POUND BOMB, A  
B747 AIR CRAFT IMPACT ON THE ROOF, AND A  
SOPHISTICATED TERRORIST ATTACK. FURTHERMORE, UNDER  
CHEMICAL WARFARE CONDITIONS, THE FACILITIES CAN  
CONTINUE THE WEAPON LOADOUT PROCESS WHILE  
MAINTAINING A CLEAN ENVIRONMENT WITHIN THE  
STRUCTURE. TWENTY-FIVE YEAR LIFE CYCLE COST  
ESTIMATES ARE INCLUDED FOR EACH OF THE SIX  
DESIGNS. AFTER EXAMINATION OF THE COSTS, LOADOUT  
TIMES, DAILY OPERATIONAL EFFICIENCIES, AND  
EQUIPMENT NEEDS OF THE SIX CONCEPTS, CONCEPTS 1,  
3, AND 4 WERE CHOSEN AS THE MOST VIABLE FOR  
CONSIDERATION. VOLUME I CONTAINS A NARRATIVE  
DESCRIPTION OF THE EVOLUTIONARY DESIGN PROCESS  
THAT LED TO THE SIX PROPOSED DESIGNS, A TECHNICAL  
DISCUSSION OF THE DESIGN CONSTRAINTS IMPOSED BY  
THE VARIOUS THREAT SCENARIOS, AND A DETAILED  
DESCRIPTION OF THE SIX FACILITY DESIGNS. VOLUME II  
DOCUMENTS THE ENGINEERING CALCULATIONS SUPPORTING  
THE STRUCTURAL DESIGNS AND THE LIFE CYCLE COST  
CALCULATIONS. PLANNED SECTION DRAWINGS ARE  
PROVIDED FOR EACH OF THE SIX FACILITIES.  
DTIC Descriptors (Keywords): ARCHITECTURE; ATTACK; BOMBING; CHEMICAL WARFARE;  
CONSTRUCTION; CRASHES; EXPLOSIONS; MODIFICATION;  
PROTECTION; RESISTANCE; STORAGE; STRUCTURES;  
TERRORISM; TRANSPORT AIRCRAFT; VENTILATION; WATER  
TABLE; WEAPONS; MAGAZINES(ORDNANCE)  
DTIC Identifiers (Keywords): FLAT TERRAIN

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AD Number: A139564  
Title: MUNITIONS STORAGE CONCEPTS FOR USE IN FLAT  
TERRAIN. VOLUME 2. MUNITIONS STORAGE LAYOUTS.  
Site Holding: DT  
Author(s): BLAYLOCK, N. W.; MORRIS, B. L.; NASH, P. T.;  
VARGAS, L. M.; WHITNEY, M. G.  
Publication Date: 19831201  
Descriptive Note: FINAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Contract Number: DACA88-82-C-0013  
Pages: 462  
Corporate Author: SOUTHWEST RESEARCH INST SAN ANTONIO TX  
Supplementary Note: INCLUDES ENVELOPE WITH FLOOR PLANS. SEE ALSO  
VOLUME 1, AD-A139 169.  
Abstract: THE OBJECTIVE OF THIS PROJECT WAS TO DEVELOP  
FEASIBLE CONCEPTS FOR WEAPON STORAGE FACILITIES  
LOCATED IN FLAT TERRAIN WITH A HIGH WATER TABLE.  
THE RESULT OF THE STUDY IS PRELIMINARY DESIGN OF  
SIX FEASIBLE STORAGE COMPLEXES. BOTH ABOVEGROUND

AND UNDERGROUND STRUCTURES ARE PROPOSED. THE SPECIAL CONSTRUCTION PRACTICES NECESSITATED BY THE HIGH WATER ARE ADDRESSED. EACH DESIGN IS CAPABLE OF CONTAINING THE HAZARDOUS EFFECTS OF AN INTERNAL EXPLOSION WITHIN THE BAY OF OCCURRENCE. THE FACILITIES ARE ALSO DESIGNED TO SURVIVE SUCH EXTERNAL THREATS AS DETONATION OF 300,000 POUNDS OF HIGH EXPLOSIVE 100 METERS AWAY FROM THE STRUCTURE, A DIRECT HIT BY A 500 POUND BOMB, A B747 AIRCRAFT IMPACT ON THE ROOF, AND A SOPHISTICATED TERRORIST ATTACK. FURTHERMORE, UNDER CHEMICAL WARFARE CONDITIONS, THE FACILITIES CAN CONTINUE THE WEAPON LOADOUT PROCESS WHILE MAINTAINING A CLEAN ENVIRONMENT WITHIN THE STRUCTURE. TWENTY-FIVE YEAR LIFE CYCLE COST ESTIMATES ARE INCLUDED FOR EACH OF THE SIX DESIGNS. VOLUME I CONTAINS A NARRATIVE DESCRIPTION OF THE EVOLUTIONARY DESIGN PROCESS THAT LED TO THE SIX PROPOSED DESIGNS, A TECHNICAL DISCUSSION OF THE DESIGN CONSTRAINTS IMPOSED BY THE VARIOUS THREAT SCENARIOS, AND A DETAILED DESCRIPTION OF THE SIX FACILITY DESIGNS. VOLUME II DOCUMENTS THE ENGINEERING CALCULATIONS SUPPORTING THE STRUCTURAL DESIGNS AND THE LIFE CYCLE COST CALCULATIONS. PLAN AND SECTION DRAWINGS ARE PROVIDED FOR EACH OF THE SIX FACILITIES.

DTIC Descriptors (Keywords): ARCHITECTURE; BOMBING; EXPLOSIONS; RESISTANCE;  
WATER TABLE; AMMUNITION; CHEMICAL WARFARE;  
STORAGE; TERRAIN; TERRORISM; WEAPONS;  
MAGAZINES(ORDNANCE)  
DTIC Identifiers (Keywords): FLAT TERRAIN; PE62715H  
Author Keywords: MAGAZINES(ORDNANCE); STORAGE; WEAPONS

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AD Number: A160779  
Title: PLENARY SPEECH, KEYNOTE SPEECHES, LIST OF  
ATTENDEES OF SYMPOSIUM ON THE INTERACTION OF  
NON-NUCLEAR MUNITIONS WITH STRUCTURES (2ND), HELD  
AT PANAMA CITY BEACH, FLORIDA ON APRIL 15-18,  
1985.  
Site Holding: DT  
Publication Date: 19850401  
Document Classification: U  
Contract Number: F08635-83-C-0136  
Pages: 33  
Corporate Author: FLORIDA UNIV EGLIN AFB GRADUATE ENGINEERING CENTER  
Supplementary Note: SEE ALSO AD-A160 778.  
Abstract: THIS DOCUMENT REPRESENTS THE PROCEEDINGS OF THE  
SECOND SYMPOSIUM ON THE INTERACTION OF NON-NUCLEAR  
MUNITIONS WITH STRUCTURES, PANAMA CITY BEACH,  
FLORIDA, APRIL 15-18, 1985. THE SYMPOSIUM WAS  
SPONSORED BY THE FOLLOWING U. S. AIR FORCE  
AGENCIES: ENGINEERING AND SERVICES LABORATORY-  
TYNDALL AFB, FLORIDA; ARMAMENT LABORATORY- EGLIN  
AFB, FLORIDA, AND WEAPONS LABORATORY- KIRKLAND  
AFB, NEW MEXICO. THE SYMPOSIUM WAS COORDINATED  
THROUGH THE UNIVERSITY OF FLORIDA  
GRADUATE ENGINEERING CENTER, EGLIN AFB, FLORIDA  
UNDER USAF CONTRACT F08635-83-C-0136. DR. C. A.  
ROSS SERVED AS THE SYMPOSIUM COORDINATOR FOR THE  
UNIVERSITY OF FLORIDA AND DR. P. Y. THOMPSON,  
ENGINEERING AND SERVICES LABORATORY, SERVED AS  
SYMPOSIUM COORDINATOR FOR THE U. S. AIR FORCE.  
DTIC Descriptors (Keywords): BLAST; CONCRETE; CONVENTIONAL WARFARE; HARDENED  
STRUCTURES; PROTECTION; SHELTERS; SOILS;  
STRUCTURES; SURVIVABILITY; TARGETS; TERRORISM;  
THREATS; VULNERABILITY; MODIFICATION; SYMPOSIA;  
WEAPONS EFFECTS  
DTIC Identifiers (Keywords): 18 OCT 85; WEAPON REQUIREMENTS

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AD Number: A182729  
Title: SUMMARY REPORT: CHEMICAL WARFARE IN THE THIRD WORLD.  
Site Holding: DT  
Author(s): STONER, JOHN K.; THOMPSON, EDMUND R.  
Publication Date: 19870401  
Descriptive Note: FINAL SUMMARY REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Contract Number: MDA903-84-C-0031  
Pages: 50  
Corporate Author: INSTITUTE FOR DEFENSE ANALYSES ALEXANDRIA VA  
Supplementary Note: PREPARED IN COOPERATION WITH BURDESHAW ASSOCIATES, LTD, BETHESDA, MD.  
Abstract: THIS REPORT IS A CONDENSED AND UNCLASSIFIED SUMMARY OF A STUDY THAT ASSESSES THE THREAT POSED BY THE PROLIFERATION OF CHEMICAL MUNITIONS AND DELIVERY SYSTEMS AMONG THIRD WORLD NATIONS. THE OBJECTIVE WAS TO DESCRIBE THE CHEMICAL ENVIRONMENT AND POTENTIAL CW THREAT FROM THIRD WORLD AREAS, ASSESS THE CAPABILITIES OF US MILITARY FORCES TO COPE WITH SUCH THREATS, AND EXPLORE THE POSSIBILITY THAT TERRORISTS MAY EMPLOY CHEMICAL MUNITIONS IN SUPPORT OF THEIR ACTIVITIES.  
CBIAC Subject Keywords: CB THREAT; CHEMICAL MUNITIONS (FOREIGN); CHEMICAL THREAT (COMMUNIST COUNTRIES); CHEMICAL THREAT (SOVIET); COMMUNIST COUNTRY THREAT; COMMUNIST MUNITIONS (CHEMICAL); FOREIGN WEAPON SYSTEMS; FREE WORLD THREAT; SOVIET MUNITIONS (CHEMICAL); SOVIET THREAT; TERRORIST APPLICATIONS; THREAT SCENARIOS; WEAPON SYSTEMS  
DTIC Descriptors (Keywords): CHEMICAL REACTIONS; CHEMICAL WARFARE; EMPLOYMENT; IMPACT; MILITARY OPERATIONS; OPERATIONAL EFFECTIVENESS; TERRORISM; THREAT EVALUATION  
DTIC Identifiers (Keywords): PROLIFERATION; THIRD WORLD COUNTRIES  
Author Keywords: CHEMICAL WARFARE; CW IN THIRD WORLD AREAS; PROLIFERATION OF CHEMICAL MUNITIONS; TERRORISTS AND CHEMICAL WEAPONS

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AD Number: A187205  
Title: VETERINARY SERVICES IN BIOLOGICAL DISASTERS,  
Author(s): HUXSOLL, DAVID L.; PARROTT, CHERYL D.; PATRICK, WILLIAM C., III  
Publication Date: 19870315  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: PUBLISHED IN THE JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION, 190(6): 714-722, 15 MAR 87. NO COPIES FURNISHED BY DTIC/NTIS.  
Document Classification: U  
Pages: 9  
Corporate Author: ARMY MEDICAL RESEARCH INST OF INFECTIOUS DISEASES FORT DETRICK MD  
Abstract: IN PREPARING FOR AN EMERGENCY, IT IS LOGICAL TO ADDRESS THE MOST SEVERE POTENTIAL PROBLEM AND TO PLAN ON THAT BASIS. THE EMERGENCY RESPONSE THEN COULD BE SCALED TO MEET ANY SITUATION THAT BE OF LESSER MAGNITUDE AND MORE CONFINED. THE MOST SEVERE POTENTIAL BIOLOGICAL DISASTER IS BIOLOGICAL WARFARE. HOWEVER, BIOLOGICAL DISASTERS MAY OCCUR FROM EVENTS OTHER THAN BIOLOGICAL WARFARE; THEY MAY ARISE SECONDARY TO OTHER DISASTERS SUCH AS EARTHQUAKES, TORNADOES, AND NUCLEAR WAR. BIOLOGICAL WARFARE CAN BE DEFINED AS THE USE OF MICROORGANISMS OR TOXINS DERIVED FROM LIVING ORGANISMS TO INDUCE DEATH OR DISEASE IN HUMAN BEINGS, ANIMALS, OR PLANTS. THE DEFINITION WOULD APPLY TO THE LONE PERPETRATOR ACTING INDEPENDENTLY, TO STATE-SUPPORTED TERRORISM, AND TO UNDECLARED WARS AS WELL AS TO DECLARED ARMED CONFLICT. OF THE 3 TARGETS (HUMAN BEINGS, ANIMALS, AND PLANTS) IN THE UNITED STATES, THE GREATEST



THREAT WOULD APPEAR TO BE TO HUMAN BEINGS AND ANIMALS. THE RESPONSE OF THE VETERINARY PROFESSION TO SUCH EMERGENCIES SHOULD FOLLOW A LOGICAL PRIORITY, AND IT SHOULD BE RECOGNIZED THAT HUMAN LIFE, HEALTH, AND SAFETY USUALLY TAKE PRIORITY OVER STRICTLY VETERINARY FUNCTIONS.

DTIC Descriptors (Keywords): ANIMALS; BIOLOGICAL WARFARE; CHEMICAL WARFARE; CRISIS MANAGEMENT; DEATH; DECONTAMINATION; DISINFECTION; EARTHQUAKES; HIGH RATE; HUMANS; INTENSITY; LIFE(BIOLOGY); MEDICAL PERSONNEL; NUCLEAR WARFARE; PROTECTIVE EQUIPMENT; PUBLIC HEALTH.; REPRINTS; RESPONSE; THERAPY; TORNADOES; TOXINS AND ANTITOXINS; UNCONVENTIONAL WARFARE; UNITED STATES; WARFARE; CIVIL DEFENSE; DISASTERS; EMERGENCIES; MEDICAL SERVICES; VETERINARY MEDICINE

DTIC Identifiers (Keywords): MICROBIOLOGISTS.; VETERINARIANS

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AD Number: A198670  
Title: MODERN TERRORISM. THE POTENTIAL FOR INCREASED LETHALITY. CLIC PAPERS.  
Site Holding: DT  
Author(s): THORNTON, WILLIAM H.  
Publication Date: 19871101  
Descriptive Note: FINAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Pages: 18  
Corporate Author: ARMY-AIR FORCE CENTER FOR LOW INTENSITY CONFLICT  
LANGLEY AFB VA  
Abstract: THIS PAPER EXAMINES THE PRACTICE OF TERRORISM FROM AN HISTORICAL PERSPECTIVE AND IN PARTICULAR THE CHANGES IN REVOLUTIONARY THEORY WHICH HAVE IN PART RESULTED FROM THE AVAILABILITY OF MASS MEDIA MEANS. THE AUTHOR POSITS A CORRELATION EXISTS IN THE MEDIA ATTENTION GARNERED THROUGH VIOLENT TERRORIST ACTS AND THE INCREASINGLY LETHAL AND SEEMINGLY RANDOM INCIDENTS OF THESE ACTS. A DEADLY SPIRAL OF VIOLENCE HAS DEVELOPED IN WHICH, TO ATTRACT MEDIA ATTENTION, EVER HIGHER LEVELS OF VIOLENCE ARE REQUIRED. TOXIC CHEMICAL AGENTS MAY BE USED BY TERRORIST TO ACHIEVE A NEW AND EVEN HIGHER LEVEL. ALTHOUGH A FIRM CONSENSUS DOES NOT EXIST ON THE POTENTIAL FOR THE EMPLOYMENT OF CHEMICAL WEAPONS BY TERRORIST GROUPS, THE EASY AVAILABILITY OF THE TECHNOLOGY NEEDED TO PRODUCE SUCH WEAPONS AND THE RESOLVE TO INFLECT LARGE NUMBERS OF CASUALTIES INDICATES A WILLINGNESS TO EXPLORE NEW AVENUES OF VIOLENCE. TOXIC CHEMICAL AGENTS COULD WELL BE THAT NEW AVENUE.

CBIAC Subject Keywords: CB THREAT; CHEMICAL AGENTS; SABOTAGE; TERRORISM  
DTIC Descriptors (Keywords): CHEMICAL AGENTS; CHEMICAL WARFARE; TERRORISM  
Author Keywords: CHEMICAL WEAPONS; TERRORISM

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AD Number: A283148  
Title: FOREIGN POLICIES AND NATIONAL INTERESTS OF IRAN: A WOLF IN SHEEP'S CLOTHING.  
Site Holding: DT  
Author(s): CLARK, TRUDY H.  
Publication Date: 19930419  
Descriptive Note: FINAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Pages: 30  
Corporate Author: AIR WAR COLL MAXWELL AFB AL  
Abstract: IRAQ'S INVASION OF KUWAIT AND THE RESULTANT GULF WAR OF 1991 HAS FOCUSED WORLD ATTENTION ON THE MIDDLE EAST. WHAT HAS BEEN LITTLE NOTICED UNTIL RECENTLY IS THE POTENTIAL REAL BENEFICIARY OF THE GULF WAR: IRAN. SINCE THE DEATH OF THE AYATOLLAH KHOMEINI, FOUNDER OF THE ISLAMIC REPUBLIC OF IRAN, IN JUNE, 1989, IRAN HAS BEEN A NATION IN SEARCH OF

ITSELF. WATCHING WITH RENEWED INTEREST ARE THE UNITED STATES AND THE PERSIAN GULF NATIONS. THE SIGNALS FROM IRAN ARE CONFUSING. A DESCRIPTION OF IRANIAN PRESIDENT ALI AKBAR HASHEMI RAFSANJANI AS 'A PRAGMATIC MILITANT,' REFLECTS WHAT HAS BEEN CALLED IRAN'S "TWO TRACK POLICY TO EXPAND BOTH ITS POLITICAL INFLUENCE AND ITS MILITARY POWER." EVIDENCE OF A PRAGMATIC TRACK INCLUDES SUCH POSITIVE DEVELOPMENTS AS SUPPORTING THE COALITION FORCES IN THE GULF WAR AGAINST IRAQ, HELPING TO FREE THE WESTERN HOSTAGES IN LEBANON, SEEKING RAPPROCHEMENT WITH SAUDI ARABIA AND OTHER MUSLIM NATIONS, AND CULTIVATION OF FOREIGN INVESTMENTS. THE REVOLUTIONARY TRACK, MEANWHILE, STILL EMBRACES RADICAL TERRORISTS, SEEKS PROGRAMS FOR NUCLEAR/CHEMICAL/BIOLOGICAL WEAPONS, OPPOSES ARAB-ISRAELI PEACE TALKS, AND IS FUNDING AN EXPENSIVE MILITARY BUILDUP. THE DEFENSE DEPARTMENT OFFICIAL IMPLIES THAT IRAN WILL BE EITHER REVOLUTIONARY OR PRAGMATIC. A SECOND VIEW, AS IMPLIED IN THE 'TWO TRACK POLICY' EXPLANATION, IS THAT IRAN IS A WOLF IN SHEEP'S CLOTHING - ADOPTING PRAGMATIC MEASURES TO GAIN THE MEANS TO PURSUE ITS REAL REVOLUTIONARY GOAL OF DOMINATING THE PERSIAN GULF. THIS PAPER EXPLORES IRAN'S CURRENT FOREIGN POLICIES, AND WILL ATTEMPT TO SHOW THAT THE PRAGMATIC MODERATION OF PRESIDENT RAFSANJANI IS THE SHREWD MEANS TO BUY THE TIME IRAN NEEDS.

DTIC Descriptors (Keywords): BIOLOGICAL WARFARE AGENTS; CHEMICAL WARFARE AGENTS; DEVELOPING NATIONS; FOREIGN AID; FOREIGN POLICY; INTERNATIONAL RELATIONS; INVESTMENTS; IRAN; ISLAM; MILITARY STRATEGY; NATIONAL SECURITY; NUCLEAR PROLIFERATION; NUCLEAR WEAPONS; PERSIAN GULF; POLITICAL REVOLUTION; STRATEGY; TERRORISM; UNITED STATES; WESTERN SECURITY (INTERNATIONAL)

DTIC Identifiers (Keywords): DESERT STORM OPERATION; NATIONAL INTERESTS; PERSIAN GULF WAR; PRAGMATISM; REGIONAL SECURITY; THEOCRACIES; TWO TRACK POLICY

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AD Number: A293784  
Title: US POLICY AND THE IRANIAN THREAT.  
Site Holding: DT  
Author(s): KERTANSKI, PAUL  
Publication Date: 19950201  
Descriptive Note: FINAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Pages: 115  
Corporate Author: NAVAL WAR COLL NEWPORT RI  
Abstract: TOPICS INCLUDE 'DUAL CONTAINMENT' AS IT AFFECTS IRAN, INTERNATIONAL COMMUNITY THOUGHTS; EXTERNAL PRESSURES BEING APPLIED ON CLINTON ADMINISTRATION; CONVENTIONAL ARMS BUILDUP FROM THREAT IT POSES TO GCC. ISRAEL AND US; EXTERNAL THREAT POISED AGAINST A WEAKENED IRAN; DANGERS IRAN'S UNCONVENTIONAL WEAPONS PROGRAM POSE TO GCC, ISRAEL. IRAQ AND WEST; WHY IRAN BELIEVES SUCH A PROGRAM IS ESSENTIAL TO ITS EXISTENCE; CAPABILITY OF IRAN TO EXPORT ITS TERRORIST AND REVOLUTIONARY ZEAL. IRAN OVERCOMING ODDS ON ITS DOMESTIC FRONT; US - GCC RELATIONSHIP AND GCC-IRANIAN RELATIONSHIP AND QUESTIONED POLICY OF EXCLUDING IRAN FROM REGIONAL SECURITY AGREEMENTS.

DTIC Descriptors (Keywords): ARMS CONTROL; CHEMICAL WARFARE; DETERRENCE; FOREIGN MILITARY SALES; FOREIGN POLICY; GUIDED MISSILES; INTERNATIONAL RELATIONS; IRAN; IRAQ; ISRAEL; MASS DESTRUCTION WEAPONS; MILITARY CAPABILITIES; NATIONAL SECURITY; NUCLEAR WARFARE; PERSIAN GULF; TERRORISM; THREAT EVALUATION

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AD Number: A302968  
Title: IMMUNOCHEMICAL AND MASS SPECTROMETRIC DETECTION OF  
MUSTARD GAS ADDUCTS TO DNA AND PROTEINS:  
VERIFICATION AND DOSIMETRY OF EXPOSURE TO MUSTARD  
GAS.  
Site Holding: DT  
Author(s): BENSCHOP, HENDRIK P.; VAN DER SCHANS, GOVERT P.  
Publication Date: 19950601  
Descriptive Note: FINAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Contract Number: DAMD17-92-V-2005  
Pages: 270  
Corporate Author: PRINS MAURITS LABORATORIUM TNO RIJSWIJK  
(NETHERLANDS)  
Abstract: THE USE OF SULFUR MUSTARD AND NERVE AGENTS IN THE  
IRAN-IRAQ CONFLICT AND OF SARIN IN A RECENT  
TERRORIST ATTACK AS WELL AS THE TREAT OF CHEMICAL  
WARFARE IN THE RECENT GULF WAR HAVE STRESSED THE  
NEED OF RELIABLE METHODS TO DETECT THE NATURE AND  
EXTENT OF POISONING WITH CHEMICAL WARFARE AGENTS.  
IN THIS CONTEXT, WE HAVE EXTENDED OUR  
INVESTIGATIONS ON IMMUNOCHEMICAL DETECTION OF  
SULFUR MUSTARD ADDUCTS TO DNA AND PROTEINS.  
FURTHERMORE, MASS SPECTROMETRIC METHODS HAVE BEEN  
DEVELOPED AS INDEPENDENT, HIGHLY SENSITIVE  
TECHNIQUES HAVING AN ALMOST ABSOLUTE SPECIFICITY.  
A METHOD WAS DEVELOPED FOR ANALYSIS OF  
N7<2-HYDROXYETHYLTHIOETHYL)-GUANINE(N7-HETE-GUA)  
IN DIGESTED DNA, BASED UPON HPLC WITH  
ELECTROCHEMICAL DETECTION, WHICH IS SUITABLE FOR  
CALIBRATION OF METHODS FOR ADDUCT DETECTION. THE  
LOWER DETECTION LIMIT FOR EXPOSURE OF HUMAN BLOOD  
IS 0.3 UM SULFUR MUSTARD WITH IMMUNOFLUORESCENCE  
MICROSCOPY USING MONOCLONAL ANTIBODIES RAISED  
AGAINST THIS ADDUCT AND 0.07 UM (1  
N7-HETE-GUA/1.4XL0(7) NUCLEOTIDES) WITH THE LESS  
LABORIOUS IMMUNOSLOTBIOT ASSAY. DETECTION OF THE  
ADDUCT IN HUMAN SKIN BY IMMUNOFLUORESCENCE  
MICROSCOPY WAS IMPROVED RESULTING IN A DETECTION  
LIMIT OF A 15-S EXPOSURE TO SATURATED  
SULFUR-MUSTARD VAPOR (CT CA. 275 MG.MIN/M3), I.E.,  
FAR BELOW THE LEVEL THAT WOULD GIVE BLISTERS.  
DTIC Descriptors (Keywords): ATTACK; BIOPSY; BLOOD; BLOOD CELLS; CALIBRATION;  
CHEMICAL WARFARE; CHEMICAL WARFARE AGENTS; DAMAGE;  
DEOXYRIBONUCLEIC ACIDS; DETECTION; DOSIMETRY;  
EXPOSURE(GENERAL); GASES; GB AGENTS; GULFS;  
HUMANS; IN VIVO ANALYSIS; LEUKOCYTES; LIMITATIONS;  
LOW LEVEL; MASS SPECTROMETRY; METHODOLOGY; MICE;  
MICROSCOPY; MONOCLONAL ANTIBODIES; MUSTARD AGENTS;  
NERVE AGENTS; POISONING; PROTEINS; RELIABILITY;  
REMOVAL; SENSITIVITY; SKIN(ANATOMY); SULFUR;  
TERRORISM; THREATS; VERIFICATION; WARFARE  
DTIC Identifiers (Keywords): ADDUCTS; AMINO ACID DERIVATIZATION;  
BIOOMONITORING; CAIF-THYMUS DNA; CID MS-MS;  
COMPETITIVE ELISA; DNA; DOSIMETRY; GS-MS;  
HEMOGLOBIN; HEMOGLOBIN ALKYLATION SITES; HUMAN  
BLOOD; IMMUNOAFFINITY CLIMATOGRAPHY;  
IMMUNOCHEMICAL DETECTION; IMMUNOFLUORESCENCE  
MICROSCOPY; IMMUNOSLOTBLOT; LC-MS-MS; MODIFIED  
EDMAN DEGRADATION;  
N7-(HYDROXYETHYLTHIOETHYL)-GUANINE; PEPTIDE  
SYNTHESIS; PROTEIN; RETROSPECTIVE DETECTION; SKIN;  
SUFFLIR MUSTARD-AMINO ACID ADDUCTS; SULFUR  
MUSTARD-HEMOGLOBIN ADDUCTS; SULFUR MUSTARD; SULFUR  
MUSTARD ADDUCTS; SULFUR MUSTARD-DNA; WHITE BLOOD  
CELLS  
Author Keywords: BIOMONITORING; COMPETITIVE ELISA; DNA; DOSIMETRY;  
HEMOGLOBIN; HUMAN BLOOD; IMMUNOCHEMICAL DETECTION;  
PROTEIN; RETROSPECTIVE DETECTION; SKIN; SULFUR  
MUSTARD; SULFUR MUSTARD ADDUCTS; SULFUR  
MUSTARD-AMINO ACID ADDUCTS; SULFUR MUSTARD-DNA  
ADDUCTS; SULFUR MUSTARD-HEMOGLOBIN ADDUCTS; WHITE  
BLOOD CELLS

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AD Number: A309983  
Title: GENDER, STRESS, AND COPING IN THE U.S. MILITARY.  
VOLUME 3. PERFORMANCE.  
Site Holding: DT  
Author(s): FULLERTON, CAROL S.; LEVINSON, CATHERINE; NORWOOD,  
ANNE E.; SUTTON, LOREE K.; URSANO, ROBERT J.  
Publication Date: 19951001  
Descriptive Note: FINAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Pages: 260  
Corporate Author: UNIFORMED SERVICES UNIV OF THE HEALTH SCIENCES  
BETHESDA MD DEPT OF PSYCHIATRY  
Abstract: MILITARY LEADERS HAVE LONG RECOGNIZED THAT MISSION  
READINESS REQUIRES BOTH THE ABSENCE OF DISEASE AND  
THE PRESENCE OF MENTAL, PHYSICAL, AND SPIRITUAL  
HEALTH. HOWEVER, LITTLE IS PRESENTLY KNOWN ABOUT  
THE HEALTH OF MILITARY WOMEN, PARTICULARLY AS IT  
MAY BE UNIQUELY AFFECTED BY TRAUMA AND WAR. SUCH  
KNOWLEDGE IS ESSENTIAL TO MEETING THE HEALTH NEEDS  
OF MILITARY WOMEN FOR ALL MISSION CONTINGENCIES.  
THESE MISSIONS INCLUDE: PEACEKEEPING ACTIVITIES  
(E.G., THE SINAI MFO TREATY, SOMALIA);  
HUMANITARIAN AID (CARE OF CIVILIAN REFUGEES  
FOLLOWING THE PERSIAN GULF WAR; NATURAL AND  
HUMAN-MADE DISASTERS INCLUDING ASSISTANCE IN  
HURRICANE ANDREW, THE LOS ANGELES RIOTS, THREATS  
OF CHEMICAL TERRORIST ATTACK, AND THE OKLAHOMA  
CITY BOMBING); AND POTENTIAL COMBAT. AS THE NUMBER  
OF ACTIVE DUTY WOMEN INCREASES (APPROXIMATELY 10%  
IN 1995), WOMEN ARE ASSUMING CRITICAL POSITION OF  
RESPONSIBILITY WHICH FULLY EXPOSE THEM TO THE  
HAZARDS OF COMBAT AND WAR. THE SYSTEMATIC STUDY OF  
THE EFFECTS OF TRAUMA ON WOMEN'S HEALTH IS  
IMPORTANT FOR WOMEN IN ALL BRANCHES OF SERVICE.  
THERE IS A CLOSE INTERPLAY BETWEEN PERFORMANCE,  
HEALTH AND PSYCHOSOCIAL FACTORS IN RESPONDING TO  
TRAUMA, DISASTER, AND COMBAT. UNDERSTANDING THE  
GENDER-SPECIFIC RESPONSES ASSOCIATED WITH  
TRAUMATIC STRESS IS IMPORTANT FOR THE DEVELOPMENT  
OF COMMAND POLICY, TRAINING SCENARIOS, AND MEDICAL  
CARE PROCEDURES. HOWEVER, LITTLE IS PRESENTLY  
KNOWN ABOUT HOW THE HEALTH OF MILITARY WOMEN MAY  
BE UNIQUELY AFFECTED BY TRAUMA AND WAR.  
DTIC Descriptors (Keywords): ACTIVE DUTY; BOMBING; CHEMICAL WARFARE; HAZARDS;  
HEALTH; HEALTH CARE FACILITIES; MEDICAL SERVICES;  
MILITARY COMMANDERS; MILITARY MEDICINE; MILITARY  
PERSONNEL; OKLAHOMA; OPERATIONAL READINESS;  
PEACEKEEPING; PERSIAN GULF; SCENARIOS; SINAI;  
SOCIAL PSYCHOLOGY; SOMALIA; STRESS(PSYCHOLOGY);  
TERRORISM; TRAINING; TRAUMATIC SHOCK; URBAN AREAS;  
WOMEN  
DTIC Identifiers (Keywords): GENDER; POST TRAUMATIC STRESS DISORDER  
Author Keywords: COMBAT; GENDER; HEALTH; MILITARY; PERFORMANCE;  
PTSD(POST-TRAUMATIC STRESS DISORDER); SEX; STRESS;  
TRAUMA

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AD Number: A311946  
Title: THINKING THE UNTHINKABLE FACING A NUCLEAR,  
BIOLOGICAL, CHEMICAL AND THE MEANS TO DELIVER  
(NBC&M) ADVERSARY: AN INTEGRATED PLANNING  
CONSIDERATION FOR THE OPERATIONAL COMMANDER.  
Site Holding: DT; NT  
Author(s): WONG, BRUCE S.  
Publication Date: 19960614  
Descriptive Note: FINAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.  
Document Classification: U  
Pages: 37  
Corporate Author: NAVAL WAR COLL NEWPORT RI  
Abstract: IN TODAY'S VOLATILE POLITICAL, ECONOMIC, RELIGIOUS  
AND CULTURAL ENVIRONMENT NATION-STATES  
AGGRESSIVELY PURSUE ROBUST NBC&M CAPABILITIES AS

ECONOMIC AND FORCE EQUALIZERS FOR ASYMMETRIC WARFARE ADVANTAGE. TWO THOUGHTS FOLLOW. FIRST, THE ODDS INDICATE THE UNITED STATES WILL FACE A NBC&M CAPABLE AND CONFIDENT ADVERSARY IN A FUTURE REGIONAL CONFLICT. SECOND, ALTHOUGH NEVER PUBLICLY NOR EXPLICITLY STATED, THE UNITED STATES HAS INDICATED IT MAY RESPOND WITH NUCLEAR WEAPONS WHEN CONFRONTED WITH NBC&M IN A CONVENTIONAL WAR. HOWEVER ACCURATE, THIS EXCHANGE INVITES A COMPELLING QUESTION: ARE WE PREPARED TO CONFIDENTLY INTEGRATE SUCH PRESIDENTIAL TASKS INTO A CONVENTIONAL ENVIRONMENT? THIS PAPER SEEKS TO PROVIDE SOME CONSIDERATIONS TO THIS QUESTION. IT IS NOT ABOUT TELLING OPERATIONAL COMMANDER (CINC) HOW TO EXECUTE PRESIDENTIAL TASKS; IT IS ABOUT PULLING TOGETHER DIVERSE, UNCLASSIFIED, OPERATIONAL CONSIDERATIONS AS A REASONABLE FOUNDATION FOR INTEGRATING A NUCLEAR RESPONSE INTO CONVENTIONAL OPERATIONS.

CBIAC Subject Keywords: NBC; PUBLIC OPINION; CB THREAT; MISSILES; TACTICAL BALLISTIC MISSILES; IRAQ; SCUD; UNITED NATIONS; CHEMICAL WEAPONS; BIOLOGICAL WEAPONS; CONVENTIONAL WEAPONS; NUCLEAR WEAPONS; TERRORISM

DTIC Descriptors (Keywords): ASYMMETRY; BIOLOGICAL WARFARE; CHEMICAL WARFARE; CONFLICT; CONVENTIONAL WARFARE; ENVIRONMENTS; INTEGRATED SYSTEMS; MASS DESTRUCTION WEAPONS; MILITARY COMMANDERS; MILITARY OPERATIONS; NUCLEAR WARFARE; NUCLEAR WEAPONS; PLANNING

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Title: AMERICA THE VULNERABLE, THE THREAT OF CHEMICAL/BIOLOGICAL WARFARE. THE NEW SHAPE OF TERRORISM AND CONFLICT.

Author(s): DOUGLASS, JOSEPH D.; LIVINGSTONE, NEIL C.

Publication Date: 19870101

Descriptive Note: PUBLISHED BOOK

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: LEXINGTON BOOKS, DC HEATH AND COMPANY, LEXINGTON, MASSACHUSETTS.

Document Classification: U

Pages: 204

Corporate Author: DC HEALTH AND CO LEXINGTON MA

Abstract: THIS BOOK PROVIDES A SOMEWHAT DRAMATIZED LOOK AT THE PAST, PRESENT AND POSSIBLE FUTURE OF CHEMICAL/BIOLOGICAL WARFARE. SPECIAL EMPHASIS IS PAID TO BOTH SOVIET INVOLVEMENT AND TERRORIST THREAT. THIRTEEN POSSIBLE USE SCENARIOS ARE PROVIDED BY THE AUTHOR IN DIALOGUE-LADEN SHORT STORY FORM. BIOLOGICAL THREAT IS HIGHLIGHTED.

CBIAC Subject Keywords: AGENTS; BACTERIAL AGENTS; BIOLOGICAL AGENT THREAT; BIOLOGICAL AGENTS; CB THREAT; CB WEAPON DELIVERY METHODS; CHEMICAL AGENT THREAT; CHEMICAL AGENTS; GEOGRAPHIC AREAS; THREAT SCENARIOS; THREAT TYPES; TOXINS; UNITED STATES; USSR; VIRUSES

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Title: CHEMICAL WARFARE AGENTS.

Author(s): ELLIOT, GORDON; GRIPSTAD, BIRGER; LUNDQUIST, NILS-HENRIK

Publication Date: 19830601

Descriptive Note: SPECIAL PUBLICATION

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: THE SWEDISH NATIONAL DEFENSE RESEARCH INSTITUTE, STOCKHOLM, SWEDEN.

Document Classification: U

Pages: 57

Corporate Author: NATIONAL DEFENCE RESEARCH INST UMEA (SWEDEN)

Abstract: THIS SWEDISH HANDBOOK PROVIDES EXTENSIVE TECHNICAL BACKGROUND INFORMATION ON CHEMICAL AND BIOLOGICAL WARFARE AND DEFENSE. TOPICS DISCUSSED INCLUDE: HISTORY, SABOTAGE AND TERRORISM, DISARMAMENT, CHEMICAL AGENTS, TOXINS, HERBIOIDES, TRENDS, DETECTION, PROTECTIVE EQUIPMENT, AND

DECONTAMINATION.  
CBIAC Subject Keywords: ADULTS; CHILDREN; CIVIL DEFENSE; INFANTS; CHEMICAL AGENTS; COLLECTIVE PROTECTION EQUIPMENT; DECONTAMINATION; DETECTION; HANDBOOKS; INDIVIDUAL PROTECTION EQUIPMENT; REFERENCE MATERIALS; SWEDEN

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Title: PROCEEDINGS OF THE SECOND WORLD CONGRESS, NEW COMPOUNDS IN BIOLOGICAL AND CHEMICAL WARFARE: TOXICOLOGICAL EVALUATION, INDUSTRIAL CHEMICAL DISASTERS, AND CIVIL PROTECTION AND TREATMENT.  
Author(s): HENDRICKX, B.  
Publication Date: 19860824  
Descriptive Note: CONFERENCE PROCEEDINGS  
Limitations/Availability: DEPARTMENT OF TOXICOLOGY, STATE UNIVERSITY OF GHENT, BELGIUM.  
Document Classification: U  
Pages: 652  
Corporate Author: STATE UNIVERSITY OF GHENT BELGIUM  
Supplementary Note: THIS PROCEEDINGS IS FOUND IN PART II, PAGES 416-652 OF THIS VOLUME. PART I, PAGES 18-411 IS THE PROCEEDINGS OF THE INTERNATIONAL ASSOCIATION OF FORENSIC TOXICOLOGISTS 23RD EUROPEAN MEETING, TERRORISM: ANALYSIS AND DETECTION OF EXPLOSIVES.  
CBIAC Subject Keywords: BELGIUM; BIOLOGICAL AGENTS; CB INCIDENTS; CHEMICAL AGENTS; CIVIL DEFENSE; CONFERENCE PROCEEDINGS; TOXICITY; TOXICOLOGY

CBIAC Number: CB-012542  
AD Number: D751222  
Title: THE IMPORTANCE OF PROTECTION AND DETECTION FOLLOWING A CHEMICAL WEAPONS CONVENTION.  
Author(s): COOPER, GRAHAM H.  
Publication Date: 19890611  
Descriptive Note: CONFERENCE PAPER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: THIS PAPER IS CONTAINED WITHIN PROCEEDINGS OF THE THIRD INTERNATIONAL SYMPOSIUM ON PROTECTION AGAINST CHEMICAL WARFARE AGENTS (CB-010392, AD-D750610, PAGES 385-390).  
Document Classification: U  
Pages: 6  
Corporate Author: NATIONAL DEFENSE RESEARCH INST UMEA (SWEDEN)  
Supplementary Note: PAPER PRESENTED AT THE THIRD INTERNATIONAL SYMPOSIUM ON PROTECTION AGAINST CHEMICAL WARFARE AGENTS, STOCKHOLM, SWEDEN, 11-16 JUNE 1989.  
Abstract: DELEGATIONS AT THE CONFERENCE ON DISARMAMENT IN GENEVA ARE NEGOTIATING A COMPREHENSIVE, VERIFIABLE AND GLOBAL CONVENTION WHICH WILL PROHIBIT THE DEVELOPMENT, PRODUCTION, ACQUISITION, STOCKPILING, RETENTION AND USE OF CHEMICAL WEAPONS AND WHICH WILL ALSO PROHIBIT THEIR DIRECT OR INDIRECT TRANSFER. THE CURRENT DRAFT TEXT OF THE PROPOSED CONVENTION IS DIVIDED INTO SOME 17 ARTICLES WHICH ADDRESS DIFFERENT ASPECTS OF ITS IMPLEMENTATION. THESE INCLUDE DEFINITIONS (ARTICLE II), CHEMICAL WEAPONS (ARTICLE IV), CHEMICAL WEAPONS PRODUCTION FACILITIES (ARTICLE V) AND PURPOSES NOT PROHIBITED BY THE CONVENTION (ARTICLE VI). EVEN WITH THIS CONVENTION BEING NEGOTIATED, PROTECTION AND DETECTION MUST REMAIN IMPORTANT AND EACH STATE SHOULD PERSIST WITH CW DEFENSIVE RESEARCH. THIS REMAINS SO DUE TO THE (1) UNMITIGATED THREAT AND USE OF CW FROM TERRORISTS AND (2) IF A POTENTIAL USER KNOWS THAT TROOPS OF AN ADVERSARY STATE ARE WELL PROTECTED, AND THAT HIS OWN USE OF CW WILL HAVE LITTLE EFFECT, THE RISK OF BEING CAUGHT TRYING TO MANUFACTURE OR ACQUIRE SUCH WEAPONS WILL BE VERY HIGH.  
CBIAC Subject Keywords: CHEMICAL WEAPONS CONVENTION; CB CAPABILITY; CB THREAT; CHEMICAL TREATIES AND AGREEMENTS; DEFENSIVE CAPABILITY; POLICY AND DOCTRINE; TERRORISM; THREAT TYPES; TREATIES AND AGREEMENTS; TREATY VERIFICATION

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Title: A LINE IN THE SAND.  
Author(s): JENNINGS, PETER  
Publication Date: 19900826  
Descriptive Note: VIDEOTAPE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
FUSION VIDEO, 17214 S. OAK PARK AVENUE, TINLEY  
PARK, IL 60477.  
Document Classification: U  
Pages: 1  
Corporate Author: AMERICAN BROADCASTING CO NEW YORK ABC NEWS  
Supplementary Note: FOR DOMESTIC USE ONLY. ANY UNAUTHORIZED COPYING,  
HIRING, LENDING FOR PUBLIC PERFORMANCES OF THE  
VIDEO CASSETTE ARE ILLEGAL.  
Abstract: ABC NEWS TAKES A STEP BACK FOR AN IN-DEPTH LOOK AT  
THE EVENTS LEADING UP TO THE IRAQI INVASION OF  
KUWAIT. PETER JENNINGS REPORTS ON THE  
LONG-STANDING RELATIONSHIP OF SADDAM HUSSEIN'S  
IRAQ WITH THE UNITED STATES AND OTHER WESTERN  
NATIONS, AND THE IMPACT OF THEIR SUPPORT OF IRAQ'S  
MILITARY BUILD-UP DURING THE PAST DECADE. PETER  
JENNINGS IS JOINED BY CHIEF FOREIGN CORRESPONDENT  
PIERRE SALINGER, CHIEF NATIONAL SECURITY  
CORRESPONDENT JOHN MCWETHY, AND LONDON BASED  
CORRESPONDENT JOHN LAURENCE TO DISCUSS THE  
VOLATILE SITUATION.  
CBIAC Subject Keywords: ARMS SALES; CB CAPABILITY; CB INCIDENTS; CB  
STOCKPILES; CB THREAT; CB WEAPON PRODUCTION;  
CONFRONTATIONS; DEFENSIVE CAPABILITY; IRAN-IRAQ  
WAR; IRAQ; MIDDLE EAST; OFFENSIVE CAPABILITY;  
POLICY AND DOCTRINE; PROLIFERATION; SYRIA;  
TERRORISM; TURKEY; UNITED STATES; WARS; VIDEOTAPES  
CBIAC Identifiers (Keywords): KUWAIT

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AD Number: D751757  
Title: DEVELOPMENT OF FUTURE WEAPON STORAGE SITE CONCEPTS.  
Site Holding: NT  
Author(s): MATALUCCI, R. V.  
Publication Date: 19900612  
Descriptive Note: CONFERENCE PAPER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: NATIONAL TECHNICAL  
INFORMATION SERVICE, TECHNOLOGY ADMINISTRATION,  
SPRINGFIELD, VA 22161.  
Document Classification: U  
Contract Number: AC04-76DP00789  
Pages: 10  
Corporate Author: SANDIA NATIONAL LAB ALBUQUERQUE NM  
Supplementary Note: PAPER PRESENTED AT THE DEPARTMENT OF ENERGY  
SPONSORED 1990 GOVERNMENT-INDUSTRY TECHNICAL  
SYMPOSIUM, HELD AT WILLIAMSBURG, VA ON 12-14 JUN  
1990.  
Abstract: BECAUSE OF INCREASED SECURITY THREATS, SIGNIFICANT  
IMPROVEMENTS HAVE BEEN MADE TO NUCLEAR WEAPONS  
STORAGE SITES IN AN EFFORT TO ENHANCE THE  
SURVIVABILITY AND SECURITY OF THESE FACILITIES.  
THESE IMPROVEMENTS HAVE BEEN CONSTRAINED BY THE  
DESIGN AND LAYOUT OF THE FACILITIES AND BY BUDGET  
LIMITATIONS. THIS PAPER PRESENTS CONCEPTS FOR  
FIXED STORAGE SITES IN WHICH THE DESIGN  
INCORPORATES THE LATEST TECHNOLOGY IN SECURITY AND  
SURVIVABILITY. THE CONCEPTS INCLUDE A VAULT  
STORAGE SYSTEM, A FORT STORAGE FACILITY, AN  
UNDERGROUND FACILITY, AND A DESIGN FOR UPGRADING  
EXISTING IGLOO STORAGE FACILITIES.  
CBIAC Subject Keywords: ABOVE GROUND MAGAZINES; AGENT STOCKPILES; CB  
STOCKPILES; CHEMICAL AGENT THREAT; CHEMICAL  
STORAGE FACILITIES; CHEMICAL SURETY; CONFERENCE  
PROCEEDINGS; IGLOOS; MUNITIONS STOCKPILES; NBB;  
OPEN STORAGE AREAS; SABOTAGE; TERRORISM  
CBIAC Identifiers (Keywords): HARDENED STRUCTURES; INTRUSION DETECTION;  
ROBOTICS; SECURITY SYSTEMS; STORAGE FACILITY  
DESIGN; UNDERGROUND STORAGE

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Title: CHEMICAL AND BIOLOGICAL WARFARE - THREAT OF THE FUTURE.  
Author(s): LE CHENE, EVELYN  
Publication Date: 19890101  
Descriptive Note: TECHNICAL PAPER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: THE MACKENZIE INSTITUTE FOR THE STUDY OF TERRORISM, REVOLUTION AND PROPAGANDA, SUIT 906, 100 ADELAIDE STREET WEST, TORONTO, CANADA M5H 1S3.  
Document Classification: U  
Pages: 31  
Corporate Author: MACKENZIE INSTITUTE TORONTO (ONTARIO)  
Abstract: WESTERN ALLIES MAY HAVE BEEN LULLED INTO AN ASSUMPTION OF SECURITY AND OPTIMISM BY GLASTNOST AND CONTINUING NEGOTIATIONS WITH THE SOVIET UNION ON NUCLEAR DISARMAMENT AND OTHER ISSUES. IT IS THE AUTHOR'S CONTENTION THAT THIS PUTS THE GENERAL POPULATION IN VERY REAL DANGER. THE SOVIETS CONTINUE TO BE A THREAT BECAUSE OF THEIR VAST ARSENAL OF CBW AGENTS AND DELIVERY SYSTEMS, THEIR WELL TRAINED MILITARY CHEMICAL UNITS, AND ADEQUATE PROTECTIVE EQUIPMENT AND DECONTAMINATION PROCEDURES WHICH ALLOW THEM TO CONTINUE OPERATIONS UNDER CONTAMINATED CONDITIONS. IN ADDITION, THE SOVIETS HAVE VIOLATED THE 1972 CONVENTION BY EXPORTING CB WEAPONS AND/OR TECHNOLOGY. THE CB CAPABILITY OF COUNTRIES OF THE MIDDLE EAST AND NORTH AFRICA (AND POSSIBLE TRANSFER OF THIS CAPABILITY TO TERRORIST GROUPS) IS ALSO AN EVER INCREASING THREAT. ANOTHER AREA OF CONCERN IS THE RISK TO THE GENERAL POPULATION FROM INDUSTRIAL ACCIDENTS OR NATURAL DISASTERS. THIS TREATISE ON THE THREAT OF CHEMICAL AND BIOLOGICAL WARFARE AGENTS CONCLUDES THAT THE THREAT TO THE CIVILIAN POPULATION IS INCREASING AT AN ALARMING RATE, AND THAT IT IS VITAL THAT WESTERN ALLIED NATIONS DEVELOP CIVIL DEFENSE PROGRAMS.  
CBIAC Subject Keywords: BIOLOGICAL AGENT THREAT; CANADA; CB CAPABILITY; CB HAZARDS; CB INCIDENTS; CB STOCKPILES; CB THREAT; CB WEAPON PRODUCTION; CHEMICAL AGENT THREAT; CHEMICAL TREATIES AND AGREEMENTS; CIVIL DEFENSE; DEFENSIVE CAPABILITY; EGYPT; GROUND SHOCK; IRAN; IRAQ; ISRAEL; JORDAN; LIBYA; MIDDLE EAST; NORTH AFRICA; SYRIA; TERRORISM; THREAT TYPES; TREATIES AND AGREEMENTS  
Task Keywords: SOVEREIGNTY, LEGAL IMPLICATIONS, AND CD ADMINISTRATION

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Title: OBSTACLES TO LARGE-SCALE BIOLOGICAL TERRORISM.  
Author(s): CHESTER, C. V.  
Publication Date: 19910901  
Descriptive Note: TECHNICAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, TECHNOLOGY ADMINISTRATION, SPRINGFIELD, VA 22161.  
Document Classification: U  
Pages: 3  
Corporate Author: OAK RIDGE NATIONAL LAB TN  
Abstract: THIS PAPER LISTS THE OBSTACLES TO BE OVERCOME BY A PERSON OR GROUP INTERESTED IN USING A BIOLOGICAL AGENT TO ATTACK A HIGH DENSITY POPULATION TARGET.  
CBIAC Subject Keywords: ANTHRAX; BIOLOGICAL AGENT THREAT; TERRORISM

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Title: PROLIFERATION OF NUCLEAR, CHEMICAL AND BIOLOGICAL WEAPONS.  
Author(s): LATTER, RICHARD  
Publication Date: 19900601  
Descriptive Note: CONFERENCE PAPER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION



UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
UNIPUB, 4611-F ASSEMBLY DRIVE, LANHAM, MD  
20706-4391.

Document Classification: U  
Pages: 32  
Corporate Author: WILTON PARK STEYNING WEST SUSSEX (UNITED KINGDOM)  
Supplementary Note: WILTON PARK PAPERS 25.  
Abstract: THE CONFERENCE BROUGHT TOGETHER REPRESENTATIVES OF  
DEFENCE COMMUNITIES IN FIRST AND THIRD WORLD  
COUNTRIES TO EXAMINE DIFFERENCES AND COMMON  
INTERESTS REGARDING PROLIFERATION, LIKELY NATIONAL  
POLICIES AND THE PROSPECTS FOR INTERNATIONAL  
CO-OPERATION. GIVEN THE RECENT BENEFITS OF  
EAST-WEST COLLABORATION AND ARMS CONTROL MEASURES,  
THOUGHT IS BEING GIVEN TO THE POSSIBILITY OF  
INTRODUCING SUCH ARRANGEMENTS IN THIRD WORLD  
CONTEXTS. THE BANNING OR REDUCTION OF CLASSES OF  
WEAPONS, THE INTRODUCTION OF VERIFICATION  
PROCEDURES, AND CONFIDENCE-BUILDING MEASURES MAY  
BE SOUGHT THROUGH BILATERAL OR MULTILATERAL  
NEGOTIATIONS. THREE ISSUES ARE OF PARTICULAR  
IMPORTANCE: MONITORING AND CONTROL OF ARMS AND  
TECHNOLOGY TRANSFER FROM TRADITIONAL SUPPLIERS TO  
THE THIRD WORLD; CONTROL OR RESTRAINT OF  
INDIGENOUS PRODUCTION OF WEAPONS WITHIN THE THIRD  
WORLD AND TRANSFER BETWEEN THIRD WORLD COUNTRIES;  
AND THE PREVENTION OF THE USE OF WEAPONS WHERE  
THESE ARE ALREADY IN PLACE.  
CBIAC Subject Keywords: CB WEAPONS; IRAN-IRAQ WAR; MISSILES; NATO; NBC;  
TERRORISM; THREAT TYPES; TREATY VERIFICATION;  
UNITED KINGDOM; UNITED STATES; USSR  
CBIAC Identifiers (Keywords): MISSILE TECHNOLOGY CONTROL REGIME (MTCR); NUCLEAR  
NON-PROLIFERATION TREATY; PROLIFERATION; THIRD  
WORLD

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Title: FIGHTING TO STEM THE TIDE.  
Author(s): BANKS, TONY  
Publication Date: 19900714  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
JANE'S DEFENCE WEEKLY, 14(2): 51-54, 14 JULY 1990.  
Document Classification: U  
Pages: 4  
Corporate Author: JANES INFORMATION GROUP ALEXANDRIA VA  
Abstract: MORE THAN 18 MONTHS AFTER 149 NATIONS RESOLVED TO  
ACCELERATE NEGOTIATIONS FOR A TOTAL BAN ON  
CHEMICAL WEAPONS (CW) AT THE PARIS CONFERENCE ON  
THE PROHIBITION OF CHEMICAL WEAPONS, THE GENEVA  
DISARMAMENT TALKS HAVE YET TO PRODUCE POSITIVE  
RESULTS. SINCE THE PARIS CONFERENCE, A NUMBER OF  
DEVELOPMENTS HAVE UNDERLINED THE PROLIFERATION OF  
CW CAPABILITIES. AS MANY AS 20 NATIONS APPEARS  
LIKELY, WHILE SUB-NATIONAL TERRORIST ORGANISATIONS  
HAVE THREATENED CW/BW (BIOLOGICAL WEAPONS) USE.  
WITH THE PROLIFERATION OF CW-CAPABLE DELIVERY  
SYSTEMS AND INSUFFICIENT OR INEFFICIENT PROTECTION  
EQUIPMENT, A CHEMICAL OR BIOLOGICAL THREAT IS AN  
ATTRACTIVE OPTION TO THOSE WILLING TO RISK OR  
IGNORE INTERNATIONAL OPPROBRIUM.  
CBIAC Subject Keywords: BIOLOGICAL AGENT THREAT; CB STOCKPILES; CB THREAT;  
CB WEAPON PRODUCTION; CHEMICAL INDUSTRY; CHEMICAL  
TREATIES AND AGREEMENTS; CONFRONTATIONS;  
DETECTION; INSPECTORS; OFFENSIVE CAPABILITY;  
POLICY AND DOCTRINE; PROLIFERATION; TERRORISM  
CBIAC Identifiers (Keywords): DEVELOPING NATIONS; THIRD WORLD COUNTRIES  
Task Keywords: INSPECTIONS; MEDIA REPORTS; SOVEREIGNTY, LEGAL IMPLICATIONS, AND  
CD ADMINISTRATION

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Title: CHEMICAL WEAPONS PROLIFERATION, POLICY ISSUES  
PENDING AN INTERNATIONAL TREATY.  
Author(s): REMACLE, ERIC; ZANDERS, JEAN PASCAL  
Publication Date: 19900316

Descriptive Note: CONFERENCE PROCEEDINGS  
 Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
 UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
 CENTRE FOR POLEMOMOLOGY, UNIVERSITY OF BRUSSELS,  
 PLEINLAAN 2, B-1050 BRUSSELS, BELGIUM.  
 Document Classification: U  
 Pages: 183  
 Corporate Author: VRIJE UNIV BRUSSELS (BELGIUM) CENTER FOR  
 POLEMOMOLOGY  
 Supplementary Note: PAPERS FROM THE SECOND ANNUAL CONFERENCE ON  
 CHEMICAL WARFARE HELD AT THE UNIVERSITY OF  
 BRUSSELS ON 16 MARCH 1990.  
 Abstract: THE SECOND ANNUAL CONFERENCE ON CHEMICAL WARFARE  
 WAS ORGANIZED ON THE THEME: CHEMICAL WEAPONS  
 PROLIFERATION, POLICY. ISSUES PENDING AN  
 INTERNATIONAL TREATY. THE CRISIS OVER THE CHEMICAL  
 PRODUCTION PLANT AT RABTA IN LIBYA (1989) POINTED  
 TO THE ALARMING EXTENT OF THE PROBLEM OF CHEMICAL  
 WEAPONS PROLIFERATION.  
 CBIAC Subject Keywords: ARMS CONTROL; BELGIUM; CB STOCKPILES; CB THREAT;  
 CHEMICAL TREATIES AND AGREEMENTS; CHEMICAL  
 WEAPONS; CONFERENCE PROCEEDINGS; DIPLOMACY; EXPORT  
 CONTROL REGULATIONS; IRAQ; LIBYA; MIDDLE EAST;  
 MUNITIONS STOCKPILES; NATO; POLICY FACTORS;  
 POLICYMAKERS; RETALIATION; TECHNOLOGY TRANSFER;  
 TERRORISM; TREATY NON-COMPLIANCE; USSR; WEST  
 GERMANY; WESTERN EUROPE

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Title: DOOMSDAY WEAPONS IN THE HANDS OF MANY. THE ARMS  
 CONTROL CHALLENGE OF THE 90'S.  
 Author(s): BAILEY, KATHLEEN C.  
 Publication Date: 19910101  
 Descriptive Note: PUBLISHED BOOK  
 Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
 UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
 UNIVERSITY OF ILLINOIS PRESS, 54 EAST GREGORY  
 DRIVE, CHAMPAIGN, IL 61820.  
 Document Classification: U  
 Pages: 158  
 Corporate Author: BAILEY (KATHLEEN C) NATIONAL SECURITY RESEARCH  
 INC FAIRFAX VA  
 Abstract: PROLIFERATION NOW CONSTITUTES ONE OF THE MOST  
 SERIOUS THREATS TO INTERNATIONAL PEACE AND  
 STABILITY, AS WELL AS TO US NATIONAL SECURITY. IT  
 SHOULD BECOME THE FOCUS OF MULTINATIONAL AND  
 BILATERAL ARMS CONTROL EFFORTS BEFORE IT IS TOO  
 LATE. THIS BOOK IS INTENDED TO DESCRIBE THE SCOPE  
 AND NATURE OF THE PROLIFERATION PROBLEM AND TO  
 OFFER SOME IDEAS AS TO WHAT MIGHT BE DONE TO  
 ADDRESS IT. THREE QUESTIONS MUST BE ASKED: HOW  
 HARD IS IT TO ACQUIRE WEAPONS OF MASS DESTRUCTION  
 (NUCLEAR, CHEMICAL, BIOLOGICAL, OR TOXIN) AND THE  
 ATTENDANT DELIVERY STSTEMS (BALLISTIC OR CRUISE  
 MISSILES): WHICH COUNTRIES ARE CURRENTLY TRYING TO  
 ACQUIRE THEM? IS THERE ANYTHING THAT THE UNITED  
 STATES AND OTHER COUNTRIES MIGHT DO TO BETTER  
 CONFRONT AND SOLVE THIS PROBLEM?  
 CBIAC Subject Keywords: BIOLOGICAL WEAPONS; ARMS CONTROL; BIOLOGICAL  
 AGENTS; BOOKS; BRAZIL; CB THREAT; CHEMICAL AGENTS;  
 CHEMICAL TREATIES AND AGREEMENTS; CHEMICAL  
 WEAPONS; CHINA; CONVENTIONAL WEAPONS; DECLARATION;  
 EGYPT; INDIA; IRAN; IRAQ; ISRAEL; LIBYA; MISSILES;  
 NBC; NORTH KOREA; NUCLEAR WEAPONS; POLICY AND  
 DOCTRINE; POLICY FACTORS; POLICY STATEMENTS;  
 PROLIFERATION; SOUTH AFRICA; TAIWAN; TERRORISM;  
 UNITED STATES; USSR  
 CBIAC Identifiers (Keywords): NONPROLIFERATION POLICIES; THIRD WORLD COUNTRIES  
 Library of Congress Keywords: BIOLOGICAL ARMS CONTROL; CHEMICAL ARMS CONTROL;  
 NUCLEAR ARMS CONTROL; NUCLEAR NON-PROLIFERATION

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Title: THREAT OF CHEMICAL, BIOLOGICAL ARMS IN  
POST-COLD-WAR ERA ASSESSED.  
Author(s): EMBER, LOIS  
Publication Date: 19921109  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
CHEMICAL AND ENGINEERING NEWS, NOVEMBER 9, 1992,  
PAGES 23-24.  
Document Classification: U  
Pages: 2  
Corporate Author: AMERICAN CHEMICAL SOCIETY WASHINGTON DC  
Abstract: A HOUSE OF REPRESENTATIVE INQUIRY INTO THE NATURE  
OF THE CHEMICAL AND BIOLOGICAL WEAPONS THREAT IN  
THE POST-COLD-WAR ERA AND WHAT THE US CAN DO TO  
COUNTER THE THREAT IS LIKELY TO SHAPE  
CONGRESSIONAL DEBATES ON THE FISCAL 1994 DEFENSE  
BUDGET NEXT YEAR. A SPECIAL PANEL WAS APPOINTED BY  
HOUSE ARMED SERVICES COMMITTEE CHAIRMAN LES ASPIN  
(DEMOCRAT-WISCONSIN) LAST APRIL. THE PANEL IS  
SCHEDULED TO REPORT FINDINGS AND RECOMMENDATIONS  
TO THE ARMED SERVICES COMMITTEE'S DEFENSE POLICY  
PANEL BY DECEMBER 31, 1992. INTEREST IS IN THE  
ISSUE OF THE UNITED STATES' ABILITY TO DEFEND  
AGAINST WEAPONS OF MASS DESTRUCTION. SEVERAL  
RECENT DEVELOPMENTS HAVE SERVED TO REINFORCE THE  
NEED TO INVESTIGATE POTENTIAL FUTURE THREATS AND  
THE UNITED STATES' CAPABILITY TO COUNTER THEM.  
AMONG THESE POTENTIAL THREATS IS THE ACCELERATING  
PROLIFERATION OF BIOLOGICAL AND CHEMICAL WEAPONS  
IN OTHER COUNTRIES AROUND THE WORLD. ANOTHER IS  
THE RUBLE-POOR RUSSIAN REPUBLIC SELLING ITS  
CHEMICAL AND BIOLOGICAL ARSENALS TO THE HIGHEST  
BIDDERS. AND FINALLY, THE LESSON OF THE PERSIAN  
GULF WAS DEMONSTRATED IN HOW ILL-EQUIPPED THE US  
TROOPS WERE TO FIGHT A CHEMICAL OR BIOLOGICAL WAR.  
AFTER BRIEFINGS FROM A RANGE OF RECOGNIZED  
EXPERTS, THE CHEMICAL AND BIOLOGICAL WEAPONS  
THREAT IS STILL OF SPECIAL CONCERN TODAY,  
SPECIFICALLY THE PROLIFERATION ASPECT. A FINAL  
BRIEFING ON BIOLOGICAL WEAPONS IS EXPECTED TO  
STRESS THE NEED FOR IMPROVEMENTS IN BIOLOGICAL  
WEAPONS DEFENSE, IN OUR RESEARCH AND DEVELOPMENT  
PROGRAM ON PROTECTIVE MEASURES, AND IN TROOP  
TRAINING.  
CBIAC Subject Keywords: ANTHRAX; CB CAPABILITY; CB POLICYMAKERS; CB WEAPON  
DELIVERY SYSTEMS; CB WEAPONS; CHEMICAL PROTECTION;  
DEFENSIVE CAPABILITY; DIPLOMACY; MISSILES;  
OFFENSIVE CAPABILITY; RETALIATION; SCUD;  
TERRORISM; UNITED STATES; US CONGRESS; USSR

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Title: RICIN: A CASE STUDY FOR THE TREATY.  
Author(s): GARRETT, BENJAMIN C.  
Publication Date: 19920101  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: THE  
ASA NEWSLETTER, NO. 2, 1992, PAGES 1, 10-12.  
Document Classification: U  
Pages: 3  
Corporate Author: APPLIED SCIENCE AND ANALYSIS INC PORTLAND ME  
Abstract: USE OF RICIN AS AN ASSASSINATION WEAPON HAS BEN  
DEMONSTRATED ON THREE KNOWN OCCASIONS. KNOWLEDGE  
OF THE RICIN'S POTENTIAL AS A WEAPON HAS SPREAD TO  
TERRORIST GROUPS. RICIN'S UTILITY AS A CHEMICAL  
WEAPON IS ACKNOWLEDGE BY ITS EXPLICIT LISTING ON  
SCHEDULE 1 OF THE CHEMICAL WEAPONS CONVENTION  
(CWC). THEREFORE, IT SEEMS REASONABLE THAT AT SOME  
POINT A STOCKPILE OF RICIN WILL BE UNCOVERED OR  
THAT RICIN WILL OTHERWISE BE ASSOCIATED WITH A  
TREATY-RELATED INSPECTION. IN RECOGNITION OF THIS,  
DEVELOPMENT OF THREE ANALYTICAL METHODS TO SUPPORT  
POSSIBLE RICIN ANALYSIS REQUIREMENTS IS  
RECOMMENDED.

CBIAC Subject Keywords: AGENTS; ANALYTICAL CHEMISTRY; ASSAYS; BIOLOGICAL  
AGENT DETECTION METHODS; BIOLOGICAL AGENTS;  
CHEMICAL WEAPONS CONVENTION; CHROMATOGRAPHY;  
DETECTION; DETECTION METHODS; HIGH PRESSURE LIQUID  
CHROMATOGRAPHY; IMMUNOASSAY; INSPECTION METHODS;  
INTERNATIONAL SECURITY; QUANTITATIVE ANALYSIS;  
RICIN; SCHEDULE 1 CHEMICALS; TERRORISM; TOXINS  
CBIAC Identifiers (Keywords): ASSASSINATIONS

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Title: FACING UP TO THE CHALLENGE OF IRAN.  
Author(s): DE COURCY, J.  
Publication Date: 19921201  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
ISLAMIC AFFAIRS ANALYST, DECEMBER 1992, PAGES 1-2.  
Document Classification: U  
Pages: 2  
Corporate Author: INTELLIGENCE INTERNATIONAL LTD GLOS (UNITED  
KINGDOM)  
Abstract: IRAN IS INVOLVED WITH ISLAMIST TERRORISM IN EGYPT  
AND IN THE FORMATION OF WHAT CAIRO REFERS TO AS A  
SHI'ITE BELT STRETCHING FROM IRAN, THROUGH  
SOUTHERN IRAQ TO SYRIA AND LEBANON. THE SHI'ITE  
SECT IS CONSIDERED TO BE DANGEROUS AND POSES  
THREAT NOT ONLY TO THE GULF STATES IN THE ARABIAN  
PENINSULA AND TO IRAQ, BUT ALSO TO EGYPT.  
CBIAC Subject Keywords: EGYPT; IRAN; IRAQ; MIDDLE EAST; NUCLEAR TREATIES  
AND AGREEMENTS; NUCLEAR WEAPONS CONTROL; OPERATION  
DESERT STORM; PERSIAN GULF WAR; TERRORISM  
CBIAC Identifiers (Keywords): CAIRO; ISLAM; SHI'ITE BELT

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Title: BIOLOGICAL WEAPONS: WEAPONS OF THE FUTURE?  
Author(s): BROWDER, GLEN; ROBERTS, BRAD  
Publication Date: 19930101  
Descriptive Note: PUBLISHED BOOK  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
WESTVIEW PRESS INC, 5500 CENTRAL AVENUE, BOULDER,  
CO 80301.  
Document Classification: U  
Pages: 101  
Corporate Author: CENTER FOR STRATEGIC AND INTERNATIONAL STUDIES  
WASHINGTON DC  
CBIAC Subject Keywords: ARMS CONTROL POLICY; BIOLOGICAL AGENT THREAT;  
BIOLOGICAL AND TOXINS WEAPONS TREATY OF 1972;  
BIOLOGICAL TREATIES AND AGREEMENTS; BIOLOGICAL  
WEAPONS; BIOTECHNOLOGY; CASUALTIES; CB THREAT;  
CONFIDENCE-BUILDING MEASURES; DEFENSIVE  
CAPABILITY; DEFENSIVE CAPABILITY R AND D; EXPORT  
CONTROL REGULATIONS; INTERNATIONAL SECURITY; IRAQ;  
MEDICAL TREATMENT; NON-COMPLIANT BEHAVIOR; PERSIAN  
GULF WAR; POLICY AND DOCTRINE; PROLIFERATION;  
TERRORISM; THIRD REVIEW CONFERENCE; TREATY  
NON-COMPLIANCE; TREATY VERIFICATION; UNITED  
NATIONS

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Title: CHEMICAL AND BIOLOGICAL WEAPONS. VOLUME 2:  
CHEMICAL AND BIOLOGICAL WEAPONS.  
Author(s): RICAUD, PIERRE  
Publication Date: 19920101  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: PUBLISHED IN  
ENCYCLOPAEDIA UNIVERSALIS, PARIS, FRANCE.  
Document Classification: U  
Pages: 22  
Corporate Author: ENCYCLOPAEDIA UNIVERSALIS PARIS  
Abstract: CHEMICAL OF BIOLOGICAL WARFARE IS THE DELIBERATE  
MILITARY USE OF CHEMICAL OR BIOLOGICAL PRODUCTS  
AGAINST LIVE ORGANISMS, OR THE USE OF APPROPRIATE  
DEFENSIVE MEANS AGAINST SUCH ATTACKS. ITS MAIN

PURPOSE IS TO TRY TO DECREASE AT CERTAIN LEVELS OF HUMAN FUNCTIONS, AND SOMETIMES LETHALLY, BY ATTACKING CERTAIN TISSUES, ORGANS OR FUNCTIONS, AND AS A SIDE EFFECT, BY DESTROYING ANIMAL OR PLANT SOURCES OF FOOD. CONTRARY TO CONVENTIONAL OR NUCLEAR WEAPONS, THIS KIND OF WARFARE DOES NOT AFFECT EQUIPMENT OR INFRASTRUCTURES WHICH COULD THEN BE RECOVERED INTACT BY THE ENEMY. THE EXTREMELY DIVERSIFIED ARRAY OF AVAILABLE PRODUCTS WOULD MAKE IT POSSIBLE TO ADAPT SUCH WAR OPERATIONS TO A SPECIFIC MILITARY PURPOSE AND TO SUPPLY LIVE CHARGES FOR GRENADES AND FOR MISSLES. GROUPED UNDER THE GENERIC TERMS OF TOXIC WEAPONS, CHEMICAL AND BIOLOGICAL WEAPONS WOULD THEN BE MORE INSIDIOUS, USABLE IN SABOTAGE OPERATIONS DUE TO THE GREAT EFFICIENCY OF SMALL QUANTITIES OF PRODUCT OR ORGANISMS. THE DANGER OF SUCH WEAPONS CANNOT BE NEGLECTED. WE MUST, HOWEVER, CONSIDER THAT IT IS RELATIVELY EASIER TO PROTECT ONESELF THAN TO PREVENT NUCLEAR OR EVEN CONVENTIONAL ATTACKS. SINCE THE INTERNATIONAL PROTOCOLS WERE NOT ABLE IN THE PAST TO PREVENT SUCH ATTACKS, ADEQUATE DETECTION, PROTECTION, AND TREATMENT OF THE PROBLEMS RESULTING FROM THE THREAT WOULD REDUCE ITS EFFICIENCY, AND THEREFORE THE TEMPTATION TO USE IT WIDELY. HOWEVER, THIS PROTECTION, IN SPITE OF CONSTANT TECHNICAL PROGRESS, WILL ALWAYS BE SOMEWHAT CUMBERSOME, REDUCING OPERATIONAL CAPABILITIES, SO MUCH SO THAT A SIMPLE THREAT OF UNILATERAL USE WILL CREATE A CERTAIN HANDICAP FOR THE OTHER PARTY.

CBIAC Identifiers (Keywords): DATSD(AE)(CB)

Author Keywords: ACETYLCHOLINE; BACTERIA; BACTERIOLOGY; BIOLOGICAL OXYDREDUCTIONS; BIOLOGICAL WAR; CHLORIDE; ENZYMES; EPIDEMICS; MUSHROOMS; MYCOSES; NEUROPHARMACOLOGY; NUCLEAR (ARMAMENT); PESTICIDES; PHYTOPATHOLOGY; RICKETTSIAE AND RICKETTSIOSES; TOXINS; VIROLOGY; VIRUS; WAR (RIGHT OF); WAR AND PEACE; WORLD WAR (FIRST); WORLD WAR (SECOND)

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CBIAC Number: CB-028544

AD Number: D754077

Title: IMPROVING THE SECURITY OF RUSSIA'S CHEMICAL WEAPONS STOCKPILE.

Author(s): SMITHSON, AMY

Publication Date: 19951001

Descriptive Note: ESSAY

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: THIS PAPER IS CONTAINED WITHIN CHEMICAL WEAPONS DISARMAMENT IN RUSSIA: PROBLEMS AND PROSPECTS, PAGES 5-20 (SEE CB-028514).

Document Classification: U

Pages: 16

Corporate Author: HENRY L STIMSON CENTER WASHINGTON DC

Abstract: THIS ESSAY SHOWS THE INSUFFICIENCY IN RUSSIAN SECURITY FOR EXISTING STOCKS OF CHEMICAL WEAPONS. THE AUTHOR NOTES THAT RUSSIAN CHEMICAL WEAPON STOCKS/STORAGE SITES APPEAR TO BE VULNERABLE TO THEFT FROM WITHIN AND ATTACK FROM WITHOUT. THE AUTHOR CONTINUES WITH INEXPENSIVE CORRECTIVE MEASURES WHICH ARE ESSENTIAL FOR THE SECURITY OF RUSSIAN CITIZENS YET MAY PROVE TO BE TOO DIFFICULT FOR THE RUSSIAN GOVERNMENT TO UNDERTAKE. THE COOPERATIVE THREAT REDUCTION (CTR) PROGRAM WAS SET UP BY THE US CONGRESS AT THE COLLAPSE OF THE SOVIET UNION IN ORDER TO SECURE WEAPONS OF MASS DESTRUCTION AND BEGIN SAFELY DISMANTLING THEIR DELIVERY VEHICLES ACCORDING TO TREATY REQUIREMENTS. THE OVERWHELMING MAJORITY OF FUNDS HAS GONE TOWARD NUCLEAR SECURITY AND DISARMAMENT. APPROXIMATELY 5% OF THE CTR FUNDS HAS GONE TOWARD ASSISTING THE CHEMICAL WEAPONS DESTRUCTION PROGRAM. DUE TO THIS LESSER AMOUNT GOING TOWARDS CHEMICAL WEAPONS DESTRUCTION, THE AUTHOR'S

CORRECTIVE MEASURES TRULY NEED TO BE IMPLEMENTED.  
CBIAC Subject Keywords: CB CAPABILITY ELIMINATION; CB HAZARDS; CB THREAT;  
CB VULNERABILITY; CHEMICAL STORAGE; CW STORAGE  
FACILITIES; FACILITIES; FACILITY TYPES;  
INTERNATIONAL SECURITY; PHYSICAL SECURITY; RUSSIA;  
SECURITY BUILDING MEASURES; SITE PERIMETER  
SECURITY; STORAGE FACILITIES; TAMPER RESISTANT  
SEALS; TERRORISM; THREAT TYPES; UNITED STATES; US  
CONGRESS; USSR; VERIFICATION SECURITY  
CBIAC Identifiers (Keywords): COOPERATIVE THREAT REDUCTION

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Title: THE CHEMICAL AND BIOLOGICAL WEAPONS THREAT.  
Author(s): OEHLER, GORDON C.  
Publication Date: 19960101  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: NATIONAL SECURITY  
INSTITUTE'S ADVISORY, JANUARY 1996, PAGE 11.  
Document Classification: U  
Pages: 1  
Corporate Author: NATIONAL SECURITY INSTITUTE WESTBOROUGH MA  
Supplementary Note: THE NATIONAL SECURITY INSTITUTE, 57 EAST MAIN  
STREET, SUITE 217, WESTBOROUGH, MA 01581 IS AN  
INDEPENDENT FIRM SERVING GOVERNMENT AND INDUSTRIAL  
SECURITY EXECUTIVES.  
Abstract: THE PROLIFERATION OF WEAPONS OF MASS DESTRUCTION  
(WMD) - A TERM THAT INCLUDES CHEMICAL WEAPONS AND  
BIOLOGICAL WEAPONS, AMONG OTHERS - IS A GLOBAL  
PROBLEM THAT CUTS ACROSS GEOGRAPHIC, POLITICAL,  
AND TECHNOLOGICAL LINES. MANY OF THE TECHNOLOGIES  
ASSOCIATED WITH WMD PROGRAMS, ESPECIALLY CHEMICAL  
AND BIOLOGICAL TECHNOLOGIES, HAVE LEGITIMATE  
CIVILIAN OR MILITARY APPLICATIONS UNRELATED TO  
WMD. AS DUAL-USE TECHNOLOGY AND EXPERTISE  
CONTINUE TO SPREAD INTERNATIONALLY, THE PROSPECTS  
FOR CHEMICAL AND BIOLOGICAL TERRORISM INCREASE.  
IN CONTRAST TO THE FABRICATION OF NUCLEAR WEAPONS,  
THE PRODUCTION OF BIOLOGICAL WEAPONS REQUIRES ONLY  
A SMALL QUANTITY OF EQUIPMENT. STOPPING THE  
PROLIFERATION OF WEAPONS OF MASS DESTRUCTION HAS  
BEEN A PROMINENT GOAL OF U.S. NATIONAL SECURITY  
AND FOREIGN POLICY PLANNING FOR SEVERAL DECADES.  
SINCE THE 1960s, WHEN THE U.S. SPONSORED THE  
TREATY ON THE NONPROLIFERATION OF NUCLEAR WEAPONS,  
THIS COUNTRY HAS RECOGNIZED THAT PROLIFERATION IS  
A GLOBAL PROBLEM AND THAT COMBATING IT REQUIRES  
HIGH LEVELS OF INTERNATIONAL COOPERATION.  
CBIAC Subject Keywords: BIOLOGICAL WEAPONS; CB THREAT; CB VULNERABILITY;  
CHEMICAL WEAPONS; COUNTERPROLIFERATION; DIPLOMACY;  
INTERNATIONAL SECURITY; NBC WEAPON ALTERNATIVES;  
POLICY AND DOCTRINE; PRECURSORS; PROLIFERATION  
STATUS; SCHEDULES OF CHEMICALS; TERRORISM; THREAT  
TYPES

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Title: SILENT DEATH.  
Author(s): UNCLE FESTER  
Publication Date: 19890101  
Descriptive Note: PUBLISHED BOOK  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
LOOMPANICS UNLIMITED, PO BOX 1197, TOWNSEND, WA  
98368.  
Document Classification: U  
Pages: 123  
Corporate Author: LOOMPANICS UNLIMITED PORT TOWNSEND WA  
Supplementary Note: NEITHER THE AUTHOR NOR THE PUBLISHER (NOR THE  
CBIAC) ASSUMES ANY RESPONSIBILITY FOR THE USE OR  
MISUSE OF INFORMATION CONTAINED IN THIS BOOK. IT  
IS SOLD FOR ENTERTAINMENT PURPOSES ONLY. BE  
WARNED!  
Abstract: THIS BOOK WILL ATTEMPT TO COVER, IN SIMPLE  
LANGUAGE, THE MANY ASPECTS OF SUCCESSFUL  
POISONING. FROM THE CRUDE INORGANIC (I.E.,

MINERAL BASED) POISONS WHICH GET SO MANY PEOPLE A ONE-WAY TICKET TO THE BIG HOUSE, TO THE MUCH MORE SUBTLE AND DIFFICULT TO DETECT ORGANIC POISONS, WE WILL EXPLORE THE METHODS USED BY ARTISTS SKILLED IN THE CRAFT TO AVOID DETECTION. WE WILL ALSO COVER THE PROCEDURES USED IN FORENSIC TOXICOLOGY LABS TO DETECT THE PRESENCE OF TOXIC SUBSTANCES IN THE BODY OF THE VICTIM. FOR THOSE REALLY BIG JOBS, WE WILL COVER IN DETAIL THE PRODUCTION AND USE OF SOME OF THE MORE DEADLY WAR GASES. THESE GASES WERE SO HORRIBLE WHEN THEY WERE USED IN WORLD WAR I THAT THEY HAVE NOT BEEN USED IN A MAJOR WAR SINCE THEN. FOR THOSE WHO HAVE WHOLE ARMIES TO CONQUER SINGLEHANDEDLY, I'M SURE THE SECTION ON THE PRODUCTION AND USE OF NERVE GASES WILL INTEREST YOU. THESE NERVE GASES HAVE BEEN CALLED "THE POOR MAN'S ATOM BOMB," WITH GOOD REASON. THEY MAKE THE WORLD WAR I WAR GASES LOOK LIKE KIDS' STUFF. I'M SURE YOU'LL BE SURPRISED HOW EASY TO MAKE AND USE THESE LITTLE GEMS ARE.

CBIAC Subject Keywords: BIOLOGICAL AGENTS; BLISTER AGENTS; BLOOD AGENTS; CB AGENT DELIVERY METHODS; CHEMICAL AGENTS; CHOKING AGENTS; EFFECTS; G AGENTS; H AGENTS; INCAPACITATING AGENTS; INORGANIC CHEMICAL COMPOUNDS; NERVE AGENTS; ORGANIC CHEMICAL COMPOUNDS; SYMPTOMS; TERRORISM; TOXINS; V AGENTS

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CBIAC Number: CB-029582  
AD Number: D754346  
Title: THE CHALLENGE OF BIOLOGICAL WARFARE DEFENSE.  
Author(s): CARRICO, JOHN P.; RICHARDSON, BILLY  
Publication Date: 19940501  
Descriptive Note: ESSAY  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: THIS PAPER IS CONTAINED WITHIN DIRECTOR'S SERIES ON PROLIFERATION, MAY 94 (CB-029578, AD-D754341), PAGES 29-38.  
Document Classification: U  
Pages: 10  
Corporate Author: DEPUTY ASSISTANT TO THE SECRETARY OF DEFENSE DC CHEMICAL MATTERS  
Abstract: THE PROSPECT OF BIOLOGICAL WARFARE IS MORE CREDIBLE TODAY THAN IN THE PAST. IRAQ'S BIOLOGICAL WARFARE PROGRAMS GREATLY CONCERNED THE US AND ALLIED SENIOR OFFICIALS DURING DESERT SHIELD AND DESERT STORM, AND LED TO THE RELATIVELY HIGH LEVEL OF CONTINUING INTEREST IN THE THREATS POSED BY FOREIGN BIOLOGICAL WEAPONS (BW). CONCERN ABOUT THE THREAT AND THE DEFENSES WITH WHICH TO MEET IT HAS NOT BEEN STRONG IN ALL PARTS OF THE US POLICY COMMUNITY. EVEN DURING DESERT SHIELD, THERE WERE SIGNIFICANT INSTANCES OF DISINTEREST AT THE MIDDLE ECHELONS OF THE DEFENSE ESTABLISHMENT. THE BIOLOGICAL DEFENSE PROGRAMS THAT HAVE BEEN INITIATED WERE "TOP-DRIVEN." RECENT BUDGET ENHANCEMENTS FOR THESE PROGRAMS THAT WERE DEVELOPED BY THE OFFICE OF THE SECRETARY OF DEFENSE AND THE JOINT STAFF, USING PLANS AND OPTIONS PREPARED BY SPECIALISTS IN CHEMICAL AND BIOLOGICAL DEFENSE. WITH THE PASSAGE OF TIME AND THE PRESSURE OF DOWNWARD BUDGET TRENDS, MEMORIES OF THE CONCERNS FELT DURING DESERT SHIELD WILL FADE. MAINTAINING SUPPORT FOR THE CURRENT BIOLOGICAL DEFENSE INITIATIVES THROUGH THE APPROXIMATELY 10-YEAR PERIOD NECESSARY FOR DEVELOPMENT AND DEPLOYMENT OF MEANINGFUL IMPROVEMENTS WILL REQUIRE CONTINUING EDUCATION REGARDING THE NATURE OF THE BW THREAT THAT CONTINUES TO EVOLVE.

CBIAC Subject Keywords: BIOLOGICAL AGENT DETECTION METHODS; BIOLOGICAL AGENTS; BIOLOGICAL/TOXIN WEAPON PROLIFERATION; CB THREAT; CIVIL DEFENSE; COUNTERPROLIFERATION; COUNTERTERRORISM; DEFENSIVE CAPABILITY; DEFENSIVE CAPABILITY R AND D; DEPARTMENT OF DEFENSE; INTELLIGENCE GATHERING; INTERNATIONAL SECURITY;

IRAQ; OPERATION DESERT SHIELD; OPERATION DESERT  
STORM; TERRORISM; UNITED STATES

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Title: BUILDING THE ORGANIZATION FOR THE PROHIBITION OF  
CHEMICAL WEAPONS. PROGRESS IN THE HAGUE, QUARTERLY  
REVIEW NO. 10.  
Publication Date: 19950601  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
THIS ARTICLE IS CONTAINED WITHIN THE CHEMICAL  
WEAPONS CONVENTION BULLETIN, ISSUE NO. 28  
(CB-028954), JUNE 1995, PAGES 4-11.  
Document Classification: U  
Pages: 8  
Corporate Author: ORGANIZATION FOR THE PROHIBITION OF CHEMICAL  
WEAPONS THE HAGUE (NETHERLANDS)  
Abstract: PREPARATIONS FOR THE CWC'S ENTRY INTO FORCE ARE  
PROGRESSING WELL. THE CONVENTION NOW HAS A TOTAL  
OF 29 RATIFICATIONS. ADDING THE FOUR STATES THAT  
RECENTLY RATIFIED THE CONVENTION, BUT HAVE NOT YET  
DEPOSITED THEIR INSTRUMENTS OF RATIFICATION, THIS  
MEANS THAT THE CONVENTION HAS NOW RECEIVED  
MORE THAN HALF THE NUMBER OF RATIFICATIONS REQUIRED  
FOR ENTRY INTO FORCE. WORK ON PREPARING FOR THE  
ESTABLISHMENT OF THE FUTURE OPCW CONTINUES. THE  
BUILDING TO BE USED AS THE OPCW LABORATORY AND  
EQUIPMENT STORE HAS NOW BEEN LEASED AND IS IN THE  
PROCESS OF BEING PREPARED FOR USE; THE PROCESS OF  
PROCURING INSPECTION EQUIPMENT IS WELL UNDERWAY;  
THE BIDDING PROCESS FOR A NUMBER OF ITEMS HAS  
CLOSED; AND THE GENERAL TRAINING SCHEME FOR THE  
INSPECTORATE IS MOVING CLOSER TO BEING FINALIZED,  
WITH MANY SIGNIFICANT GAPS IN THE LIST OF PLANNED  
COURSES FILLED BY NATIONAL OFFERS. ALTHOUGH THE  
PREPARATORY COMMISSION HAS ACHIEVED A GREAT DEAL  
IN RECENT MONTHS, A NUMBER OF IMPORTANT AREAS  
STILL REQUIRE MORE WORK. PROGRESS IN THE  
COMMISSION ON MOST ASPECTS OF DESTROYING CHEMICAL  
WEAPONS PRODUCTION FACILITIES HAS LARGELY CEASED,  
BECAUSE OF A DISPUTE RELATED TO THESE FACILITIES.  
UNCERTAINTY IN THE DATE OF THE CONVENTION'S ENTRY  
INTO FORCE (ULTIMATELY DUE TO DELAYS IN  
RATIFICATION BY LARGE STATES, MOST NOTABLY THE  
UNITED STATES AND RUSSIAN FEDERATION) APPEARS TO  
HAVE SLOWED WORK IN A NUMBER OF AREAS.  
CBIAC Subject Keywords: OPCW; PREPARATORY COMMISSION; CHEMICAL WEAPONS  
CONVENTION; TECHNICAL SECRETARIAT; RATIFICATION;  
UNITED STATES; RUSSIAN FEDERATION; PRODUCTION  
FACILITIES; HEALTH AND SAFETY; TREATY  
IMPLEMENTATION; ENTRY INTO FORCE; TERRORISM;  
EXPORT CONTROL REGULATIONS; CHALLENGE INSPECTIONS;  
WORKING GROUP A; WORKING GROUP B; EXPERT GROUPS;  
CHEMICAL INDUSTRY; INSPECTION PROCEDURES

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Title: SUSSEX-HARVARD ROLLING CBW CHRONOLOGY, FEBRUARY  
1995 THROUGH APRIL 1995.  
Author(s): ROBINSON, JULIAN PERRY  
Publication Date: 19950601  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
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THIS ARTICLE IS CONTAINED WITHIN THE CHEMICAL  
WEAPONS CONVENTION BULLETIN, ISSUE NO. 28  
(CB-028954), JUNE 1995, PAGES 12-34.  
Document Classification: U  
Pages: 21  
Corporate Author: SUSSEX UNIV BRIGHTON (UNITED KINGDOM) SCIENCE  
POLICY RESEARCH UNIT  
Abstract: THIS DOCUMENT IS AN ACCOUNT OF NEWS EVENTS TAKEN  
FROM THE SUSSEX-HARVARD ROLLING CBW CHRONOLOGY  
DATED FEBRUARY THROUGH APRIL 1995. THE CHRONOLOGY  
INCLUDES INFORMATION REGARDING CHEMICAL WEAPONS,



CBIAC Subject Keywords: CONFERENCE OF DISARMAMENT AND THE CHEMICAL WEAPONS CONVENTION FROM COUNTRIES ALL OVER THE WORLD. UNITED NATIONS SPECIAL COMMISSION; IRAQ; UNITED KINGDOM; GULF WAR SYNDROME; EGYPT; ISRAEL; FACILITIES; JAPAN; TRADE RESTRICTIONS; EXPORT CONTROL REGULATIONS; CHEMICAL WEAPONS CONVENTION; RATIFICATION; OMAN; BELARUS; BIOLOGICAL AND TOXINS WEAPONS TREATY OF 1972; AUSTRALIA GROUP; CHEMICAL INDUSTRY; OPCW; PREPARATORY COMMISSION; BIOLOGICAL WEAPONS; CHEMICAL WEAPONS; TREATY VERIFICATION; UNITED NATIONS SECURITY COUNCIL; TECHNICAL SECRETARIAT; PRODUCTION FACILITIES; COMPLIANCE MONITORING; JOHNSTON ISLAND; TERRORISM; DEMILITARIZATION; NATO; PROLIFERATION; DETECTION

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Title: SUSSEX-HARVARD ROLLING CBW CHRONOLOGY, MAY THROUGH AUGUST 1995.  
Author(s): ROBINSON, JULIAN PERRY  
Publication Date: 19950901  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: THIS ARTICLE IS CONTAINED WITHIN THE CHEMICAL WEAPONS CONVENTION BULLETIN, ISSUE NO. 29 (CB-028955), SEPTEMBER 1995, PAGES 14-34.  
Document Classification: U  
Pages: 21  
Corporate Author: SUSSEX UNIV BRIGHTON (UNITED KINGDOM) SCIENCE POLICY RESEARCH UNIT  
Abstract: THIS DOCUMENT IS AN ACCOUNT OF NEWS EVENTS TAKEN FROM THE SUSSEX-HARVARD ROLLING CBW CHRONOLOGY DATED MAY THROUGH AUGUST 1995. THE CHRONOLOGY INCLUDES INFORMATION REGARDING CHEMICAL WEAPONS, CONFERENCE OF DISARMAMENT AND THE CHEMICAL WEAPONS CONVENTION FROM COUNTRIES ALL OVER THE WORLD.  
CBIAC Subject Keywords: HUMANS; TEST SUBJECTS; UNITED KINGDOM; SIMULANTS; CHEMICAL INDUSTRY; CHEMICAL WEAPONS CONVENTION; PYRIDOSTIGMINE; GULF WAR SYNDROME; PERSIAN GULF WAR; JAPAN; TERRORISM; RUSSIA; GB; NERVE AGENTS; UNITED STATES; SURFACE ACOUSTIC WAVE; DETECTION; DETECTION EQUIPMENT; DETECTION METHODS; OPCW; TECHNICAL SECRETARIAT; DEMILITARIZATION; MARYLAND; BIOLOGICAL AND TOXINS WEAPONS TREATY OF 1972; US CONGRESS; AGENT ORANGE; UNITED NATIONS SPECIAL COMMISSION; IRAQ; TREATY IMPLEMENTATION; CHEMICAL WEAPONS; NATIONAL AUTHORITY; STATES PARTIES; GAS CHROMATOGRAPHY; RATIFICATION; STOCKPILE DESTRUCTION; PREPARATORY COMMISSION; FRANCE; PHOSGENE; M55 CHEMICAL ROCKET

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Title: PROLIFERATION: THREAT AND RESPONSE.  
Site Holding: NT; DT  
Publication Date: 19960401  
Descriptive Note: BIBLIOGRAPHY  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, TECHNOLOGY ADMINISTRATION, SPRINGFIELD, VA 22161; OR SUPERINTENDENT OF DOCUMENTS, US GOV'T PRINTING OFFICE, WASHINGTON, DC 20402-9328.  
Document Classification: U  
Pages: 83  
Corporate Author: OFFICE OF THE SECRETARY OF DEFENSE WASHINGTON DC  
Abstract: THE END OF THE COLD WAR HAS REDUCED THE THREAT OF GLOBAL NUCLEAR WAR, BUT TODAY A NEW THREAT IS RISING FROM THE GLOBAL SPREAD OF NUCLEAR, BIOLOGICAL, AND CHEMICAL WEAPONS. HOSTILE GROUPS AND NATIONS HAVE TRIED, OR HAVE BEEN ABLE, TO OBTAIN THESE WEAPONS, THE TECHNOLOGY, AND HOMEGROWN ABILITY TO MAKE THEM OR BALLISTIC MISSILES THAT CAN DELIVER THE MASSIVE ANNIHILATION, POISON, AND DEATH OF THESE WEAPONS HUNDREDS OF MILES AWAY. FOR ROGUE NATIONS, THESE WEAPONS ARE A TICKET TO POWER, STATUE, AND

CONFIDENCE IN REGIONAL WAR. THE DEPARTMENT OF DEFENSE (DOD) BOLSTERS THE DIPLOMATIC NONPROLIFERATION EFFORT BY HELPING TO PROTECT THE UNITED STATES AND OUR CITIZENS, ALLIES, AND MILITARY FORCES ABROAD FROM AGGRESSORS WHO MAY POSSESS OR OBTAIN NUCLEAR, BIOLOGICAL, AND CHEMICAL WEAPONS. THE DEPARTMENT OF DEFENSE (DOD) PROVIDES THIS LEADERSHIP THROUGH A THREE-PART STRATEGY: (1) REDUCE THE THREAT, BY LEADING THE US EFFORT TO HELP THE FORMER SOVIET UNION REPUBLICS REDUCE, DISMANTLE, SAFEGUARD, AND EVEN ELIMINATE THESE WEAPONS; (2) DETER AGAINST THE THREAT, BY MAINTAINING STRONG CONVENTIONAL FORCES AND A SMALLER BUT ROBUST NUCLEAR DETERRENT FORCE; AND (3) DEFENSE AGAINST THE THREAT THROUGH THE DEFENSE COUNTERPROLIFERATION INITIATIVE. THE DOD COUNTERPROLIFERATION INITIATIVE INVOLVES A RANGE OF DEPARTMENT-WIDE ACTIVITIES THAT HELP TO PREVENT, PROTECT AGAINST, AND EVEN REVERSE THE DANGER FROM SPREADING NUCLEAR, BIOLOGICAL, AND CHEMICAL WEAPONS; TECHNOLOGY; AND MISSILES THAT CAN DELIVER THEM. THESE EFFORTS INCLUDE DEVELOPING SYSTEMS THAT CAN INTERCEPT OR DESTROY THESE WEAPONS, PROVIDING VACCINES AND PROTECTION, AND TRACKING MOVEMENT OF WEAPONS AND TECHNOLOGY.

CBIAC Subject Keywords: AFRICA; ASIA; BIOLOGICAL WEAPONS; CB CAPABILITY; CB THREAT; CHEMICAL TREATIES AND AGREEMENTS; CHEMICAL WEAPONS; CHEMICAL WEAPONS CONVENTION; CHINA; CONVENTIONAL TREATIES AND AGREEMENTS; CONVENTIONAL WEAPONS; DEMILITARIZATION; DEPARTMENT OF DEFENSE; DIPLOMACY; EGYPT; INTERNATIONAL SECURITY; IRAN; IRAQ; JAPAN; JORDAN; KUWAIT; LIBYA; MIDDLE EAST; MISSILES; NBC; NORTH KOREA; NUCLEAR TREATIES AND AGREEMENTS; NUCLEAR WEAPONS; PERSIAN GULF WAR; POLICY AND DOCTRINE; PROLIFERATION; RUSSIAN FEDERATION; SAUDI ARABIA; SCUD; TERRORISM; TREATIES AND AGREEMENTS; UNITED STATES

CBIAC Identifiers (Keywords): COUNTERTERRORISM; ORGANIZED CRIME

DTIC Descriptors (Keywords): BIOLOGICAL WARFARE; CHEMICAL ORDNANCE; DEATH; GUIDED MISSILES; NUCLEAR WARFARE; PHYSICISTS; POISONS

DTIC Identifiers (Keywords): NBC(NUCLEAR BIOLOGICAL CHEMICAL)

Author Keywords: AFRICA; BALLISTIC MISSILES; BELARUS; BIOLOGICAL WARFARE AGENTS; CHEMICAL WARFARE AGENTS; DEFENSE SYSTEMS; GOVERNMENT POLICIES; INSURGENCY; INTERNATIONAL RELATIONS; KAZAKSTAN; MIDDLE EAST; MILITARY OPERATIONS; MILITARY PLANNING; NATIONAL DEFENSE; NONPROLIFERATION; NORTH AFRICA; NORTHEAST ASIA; NUCLEAR WEAPONS; PROLIFERATION; RUSSIAN FEDERATION; SOUTH ASIA; TERRORISM; THREAT EVALUATION; UKRAINE

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Title: PEACEKEEPING AND WEAPONS PROLIFERATION.  
Author(s): BEACH, HUGH  
Publication Date: 19940101  
Descriptive Note: OCCASIONAL PAPER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: COUNCIL FOR ARMS CONTROL, CENTRE FOR DEFENCE STUDIES, KING'S COLLEGE, UNIVERSITY OF LONDON, STRAND, WC2R 2LS, UNITED KINGDOM.  
Document Classification: U  
Pages: 20  
Corporate Author: COUNCIL FOR ARMS CONTROL LONDON (UNITED KINGDOM)  
Abstract: THIS PAPER TRIES TO DESCRIBE THE FACTS OF PEACEKEEPING AND WEAPONS PROLIFERATION. SOME OF THE LESSONS TO BE DRAWN FROM PAST EXPERIENCE ARE: (1) THE SCOPE OF MULTILATERAL OPERATIONS IS NOW SO WIDE THAT IT CAN ENCOMPASS ALMOST ALL THE FUNCTIONS OF THE CIVIL POWER; (2) WHEN THE SCOPE OF OPERATIONS IS MUCH SMALLER, THE MILITARY TASKS TO BE UNDERTAKEN DO NOT DIFFER MUCH FROM THOSE PREVIOUSLY UNDERTAKEN BY COLONIAL POWERS; (3) SUCH OPERATIONS ARE NORMALLY HIGHLY UNEQUAL IN THE

SENCE THAT THE ADMINISTERING AUTHORITY (NOW NORMALLY THE UN, POSSIBLY THE EC) IS ACTUALLY OR POTENTIALLY IN POSSESSION OF MAJOR WEAPONS SYSTEMS; (4) FOR THE PURPOSES OF THIS DISCUSSION, THE TYPE OF WEAPONS PROLIFERATION WHICH IS MOST RELEVANT IS THAT OF LIGHT WEAPONS; (5) LIGHT WEAPONS ARE NOT ONLY THOSE WHICH CAUSE THE MOST CASUALTIES BUT ARE ALSO THOSE WHOSE WIDESPREAD POSSESSION IS MOST LIKELY TO DESTROY THE PROSPECTS FOR NATIONAL COHESION AND GOOD GOVERNMENT; (6) WEAK GOVERNMENTS ARE AT WORST LIKELY TO CONDONE OR AT BEST BE UNABLE TO STAUNCH INFLUX OF SUCH WEAPONS; (7) SUPPLIERS OF SUCH WEAPONS ARE EXTREMELY MULTIFARIOUS (250 KNOWN MANUFACTURES IN 70 DIFFERENT COUNTRIES); (8) IN UNSTABLE SOCIETIES THE SPREAD OF LIGHT WEAPONS CAN BE EXPECTED NOT ONLY TO MAKE GOVERNMENT MORE DIFFICULT BUT TO COMPOUND THE PROBLEM; (9) A WIDE RANGE OF INTERNATIONAL ORGANIZATIONS ARE SEEKING INFORMATION AND GUIDELINES DESIGNED TO PREVENT OR CONTROL THE PROLIFERATION; (10) COUNTRIES UNDERTAKING INTERVENTION OPERATIONS MUST TAKE INTO ACCOUNT THE LIMITLESS STOCK OF LIGHT WEAPONS; AND (11) IN PLANNING THEIR OPERATIONS COUNTRIES SHOULD RECOGNIZE THAT THEIR OWN HEAVY WEAPONS AND HIGH TECHNOLOGIES MAY NOT BE OF MUCH USE.

CBIAC Subject Keywords: ARMS CONTROL POLICY; BOMBS; CHEMICAL WEAPONS; CIVIL DEFENSE; CONVENTIONAL WEAPONS; COUNTERPROLIFERATION; INTERNATIONAL SECURITY; MISSILES; NATO; POLICY AND DOCTRINE; PROLIFERATION; RUSSIA; RUSSIAN FEDERATION; TERRORISM; UNITED KINGDOM; UNITED NATIONS; UNITED NATIONS SECURITY COUNCIL

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Title: CHEMICAL AND BIOLOGICAL WARFARE UNMASKED.  
Author(s): DOUGLASS, JOSEPH D., JR.  
Publication Date: 19951102  
Descriptive Note: NEWSPAPER ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: THE WALL STREET JOURNAL, NOVEMBER 2, 1995.  
Document Classification: U  
Pages: 2  
Corporate Author: WALL STREET JOURNAL NEW YORK NY  
Abstract: FOR THE FIRST TIME IN MORE THAN 25 YEARS, THE US MAY BE WAKING UP TO THE SERIOUSNESS OF CHEMICAL AND BIOLOGICAL WARFARE (CBW). SEVERAL INTERRELATED EVENTS HAVE CAUSED THIS AWAKENING. FIVE RUSSIAN DETECTORS HAVE REPORTED ON A MASSIVE 25-YEAR EFFORT TO CREATE QUALITATIVELY NEW FAMILIES OF CBW AGENTS USING THE MOST ADVANCED BIOTECHNOLOGY. ARMS CONTROL TREATIES WERE DISREGARDED BY BOTH THE SOVIETS AND RUSSIANS. THE SOVIET PROGRAM, CODE NAMED BIOPREPARAT, IS ROUGHLY 10 TIMES LARGER THAN US CBW INTELLIGENCE SPECIALISTS HAD ESTIMATED PRIOR TO THE SOVIET BREAKUP. DIPLOMATIC EFFORTS WERE INITIATED TO CONVINCE THE SOVIETS TO CEASE AND DESIST. THESE PRESSURES WERE EXPANDED AS MORE INFORMATION BECAME AVAILABLE AND AS THE LEADERSHIP CHANGED. THEIR RESPONSE WAS DENIAL, EVASION AND REPEATED STONEWALLING. THE GULF WAR EXPOSED SERIOUS DEFICIENCIES IN PROTECTIVE GEAR, GAS MASKS, TROOP TRAINING AND SUPPLIES OF ANTIDOTES. THE MOST RECENT EVENT TO RAISE CONSCIOUSNESS IS ONE SENATOR NUNN HIGHLIGHTED: THE RELEASE OF A SARIN NERVE AGENT IN THE TOKYO COMMUTER TRAIN BY THE AUM CULT EARLIER THIS YEAR. THIS HIGH-LEVEL AWAKENING IS LONG OVERDUE AND REFLECTED IN A SUDDEN INCREASE IN CBW SENSOR DEVELOPMENT RESEARCH AND COUNTERPROLIFERATION PROGRAMS. STOPPING PROLIFERATION IS CRITICAL. AN EFFECTIVE COUNTERPROLIFERATION PROGRAM HAS TO START WITH SERIOUS INTELLIGENCE COLLECTION DIRECTED AGAINST THE FORMER SOVIET UNION. MOUNTING SUCH AN EFFORT

WHEN TOP BRASS STILL VIEW SUCH ACTION AS BEING  
POLITICALLY INCORRECT, AND WHEN MID-LEVEL  
OFFICIALS SABOTAGE NEW COLLECTION INITIATIVES,  
WILL BE DIFFICULT. BUT IT MUST BE DONE.

CBIAC Subject Keywords: BACTERIAL AGENTS; BIOLOGICAL AGENTS; BIOLOGICAL  
WEAPONS PROLIFERATION; CHEMICAL AGENTS; CHEMICAL  
WEAPON PROLIFERATION; COUNTERPROLIFERATION; COVERT  
OPERATIONS; GB; INTELLIGENCE GATHERING;  
INTERNATIONAL SECURITY; IRAQ; JAPAN; PERSIAN GULF  
WAR; POLICY AND DOCTRINE; PROLIFERATION; RUSSIA;  
SABOTAGE; TERRORISM; USSR; YELLOW RAIN

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Title: TOKYO TERROR AND CHEMICAL ARMS CONTROL.  
Author(s): KEENY, SPURGEON M., JR.  
Publication Date: 19950401  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
ARMS CONTROL TODAY, 25(3): 2, APRIL 1995.  
Document Classification: U  
Pages: 1  
Corporate Author: ARMS CONTROL ASSOCIATION WASHINGTON DC  
Abstract: THE NERVE GAS ATTACK IN THE TOKYO SUBWAY SYSTEM  
UNDERScores THE EXTREME VULNERABILITY OF URBAN  
SOCIETY TO TERRORIST ATTACKS, AGAINST WHICH  
NEITHER MASSIVE DETERRENT FORCES NOR EXTENSIVE  
MILITARY DEFENSES OFFER ANY PROTECTION. THE BEST  
DEFENSE IS IMPROVED INTELLIGENCE ON POTENTIAL  
TERRORISTS AND DOMESTIC LAWS PERMITTING  
PRE-EMPTIVE ACTION WHEN THERE IS PROBABLY CAUSE.  
IF THE 1993 CHEMICAL WEAPONS CONVENTION (CWC) WERE  
IN FORCE TODAY, ALL 159 CURRENT SIGNATORIES,  
INCLUDING JAPAN, WOULD BE REQUIRED TO HAVE SUCH  
LAWS.

CBIAC Subject Keywords: ARMS CONTROL; CHEMICAL WEAPONS; GB; IMPLEMENTATION  
LEGISLATION; JAPAN; NERVE AGENTS; RATIFICATION;  
TERRORISM; TREATY IMPLEMENTATION; US CONGRESS

CBIAC Identifiers (Keywords): PUBLIC TRANSPORTATION; SUBWAYS; TOKYO

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Title: STRENGTHENING THE BIOLOGICAL WEAPONS CONVENTION.  
Author(s): TUCKER, JONATHAN B.  
Publication Date: 19950401  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
ARMS CONTROL TODAY, 25(3): 9-12, APRIL 1995.  
Document Classification: U  
Pages: 4  
Corporate Author: ARMS CONTROL AND DISARMAMENT AGENCY WASHINGTON DC  
Abstract: THE BIOLOGICAL AND TOXIN WEAPONS CONVENTION (BWC)  
OF 1972, WHICH HAS BEEN RATIFIED TO DATE BY 135  
COUNTRIES, BANS THE DEVELOPMENT, ACQUISITION,  
POSSESSION AND USE OF BIOLOGICAL AND TOXIN AGENTS  
OF TYPES AND IN QUANTITIES THAT HAVE NO  
JUSTIFICATION FOR PROPHYLACTIC, PROTECTIVE OR  
OTHER PEACEFUL PURPOSES. YET, DESPITE THE SWEEPING  
NATURE OF ITS PROHIBITIONS, THE BWC DOES NOT  
INCLUDE ANY MECHANISMS TO VERIFY COMPLIANCE. WHEN  
THE TREATY WAS NEGOTIATED IN THE EARLY 1970'S THE  
PERCEIVED LACK OF MILITARY UNITY OF BIOLOGICAL  
WEAPONS AND THE WIDESPREAD VIEW THAT THE HIGHLY  
INTRUSIVE ON-SITE INSPECTIONS NEEDED FOR EFFECTIVE  
VERIFICATION WOULD BE POLITICALLY UNACCEPTABLE LED  
NEGOTIATORS TO CONCLUDE THAT A BWC VERIFICATION  
REGIME WAS NEITHER NECESSARY NOR FEASIBLE. DESPITE  
CONSTRAINTS ON BWC VERIFICATION, A SET OF LEGALLY  
BINDING TRANSPARENCY MEASURES COULD OFFER BENEFITS  
FOR INTERNATIONAL SECURITY. ONE OF THE BEST  
INDICATORS OF INTENT, OF COURSE, IS THE OPENNESS  
THAT MEMBER STATES DEMONSTRATE WITH RESPECT TO  
THEIR DUAL-USE BIOLOGICAL ACTIVITIES, AND  
PARTICULARLY THEIR WILLINGNESS TO HOST VISITS BY

FOREIGNERS AT RELEVANT BIOLOGICAL FACILITIES.  
EXCESSIVE SECRECY OR MISREPRESENTATION DURING SUCH  
ON-SITE VISITS WOULD REINFORCE SUSPICIONS THAT A  
STATE HAD SOMETHING TO HIDE. A BWC TRANSPARENCY  
REGIME INVOLVING MANDATORY DECLARATIONS OF  
TREATY-RELEVANT BIOLOGICAL FACILITIES, VALIDATED  
BY ON-SITE VISITS, WOULD HELP TO DETER THE USE OF  
DECLARED SITES FOR BW PRODUCTION, THUS DRIVING ANY  
VIOLATIONS INTO CLANDESTINE FACILITIES AND MAKING  
THEM MORE DIFFICULT AND COSTLY.

CBIAC Subject Keywords: AERIAL DELIVERY METHODS; AEROSOLS; ANTHRAX;  
BIOLOGICAL AND TOXINS WEAPONS TREATY OF 1972;  
BIOLOGICAL TREATIES AND AGREEMENTS; BIOLOGICAL  
WEAPONS; BOMBS; BOTULINUM; CB THREAT; CIVIL  
DEFENSE; FACILITIES; MISSILES; NEGOTIATION;  
PROLIFERATION; TERRORISM; TREATY VERIFICATION;  
TREATY VERIFICATION; USSR; VEREX

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Title: THE CWC CHRONICLE, VOLUME I, ISSUE 8, SEPTEMBER  
1995.

Publication Date: 19950901

Descriptive Note: JOURNAL

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: THE  
CWC CHRONICLE, VOLUME I, NUMBER 8, SEPTEMBER 1995.

Document Classification: U

Pages: 3

Corporate Author: HENRY L STIMSON CENTER WASHINGTON DC

Abstract: THE CWC CHRONICAL IS A PERIODIC NEWSLETTER ABOUT  
INTERNATIONAL AND DOMESTIC EVENTS RELATED TO THE  
IMPLEMENTATION OF THE CHEMICAL WEAPONS CONVENTION.  
THE FOLLOWING INFORMATION AND ARTICLES APPEARED IN  
THIS ISSUE: JAPAN'S FRIGHTENING ENCOUNTER WITH  
TERRORISM; OF SPECIAL INTEREST TO INDUSTRY;  
CHEMICAL MANUFACTURERS ASSOCIATION HONORED FOR  
SUPPORT OF CWC; RATIFICATION ROUND UP; RECENT  
PREPCOM ACTIVITIES; AND VERIFICATION ISSUES.

CBIAC Subject Keywords: CHEMICAL AGENTS; CHEMICAL INDUSTRY; CHEMICAL  
MANUFACTURERS ASSOCIATION; CHEMICAL WEAPONS;  
CHEMICAL WEAPONS CONVENTION; CONFIDENTIALITY;  
FACILITIES; GB; INDUSTRIAL FACILITIES; INSPECTORS;  
JAPAN; NERVE AGENTS; OPCW; PREPARATORY COMMISSION;  
PRODUCTION FACILITIES; RATIFICATION; SCHEDULE 2  
CHEMICALS; SIGNATORIES; TERRORISM

CBIAC Identifiers (Keywords): PUBLIC TRANSPORTATION; SUBWAYS

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Title: PORTABLE ISOTOPIC NEUTRON SPECTROSCOPY (PINS)  
CHEMICAL ASSAY SYSTEM.

Publication Date: 19940901

Descriptive Note: BROCHURE

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: EG&G ORTEC, 100 MIDLAND  
ROAD, OAK RIDGE, TN 37831-0895.

Document Classification: U

Pages: 8

Corporate Author: EG AND G ORTEC OAK RIDGE TN

Abstract: THE PORTABLE ISOTROPIC NEUTRON SPECTROSCOPY (PINS)  
CHEMICAL ASSAY SYSTEM WAS CREATED IN RESPONSE TO  
THE GROWING WORLDWIDE NEED TO DETERMINE IN SITU  
THE SPECIFIC NATURE OF THE CONTENTS OF AN  
ASSORTMENT OF CONTAINERS OF MUNITIONS AND CHEMICAL  
WEAPONS. PINS IS A JOINT DEVELOPMENT OF EG&G ORTEC  
AND THE IDAHO NATIONAL ENGINEERING LABORATORY  
(INEL). SUCH APPLICATIONS REQUIRE PORTABILITY,  
RELIABILITY, AND EASE OF USE. THE PERFORMANCE OF  
PINS, AVAILABLE FROM EG&G ORTEC, HAS BEEN VERIFIED  
IN REAL-WORLD USE BY THE US ARMY, WHICH HAS  
SUCCESSFULLY IDENTIFIED, IN THE FIELD, HUNDREDS OF  
SUSPECT MUNITIONS FROM BURIAL SITES AND FIRING  
RANGES. PINS READILY AND CLEARLY DISTINGUISHED  
BETWEEN CYLINDERS CONTAINING HIGH EXPLOSIVES, ONES  
THAT CONTAIN BLISTER AGENTS, AND ONES FILLED WITH

NERVE GAS. RECENT INTERNATIONAL EVENTS HAVE  
DEMONSTRATED THE VALUE OF HAVING SUCH AN  
INSTRUMENT IN THE FIGHT AGAINST TERRORISM. PINS IS  
BEING EVALUATED AS A METHOD FOR MEASUREMENTS  
ENUNCIATED UNDER THE CHEMICAL WEAPONS CONVENTION  
(CWC), CURRENTLY BEING RATIFIED WORLDWIDE.  
CBIAC Subject Keywords: ASSAYS; BLISTER AGENTS; CONTAINERS; DETECTION;  
DETECTION EQUIPMENT; G AGENTS; GA; GB; H AGENTS;  
HD; HN-1; HN-2; HN-3; HT; INSPECTION METHODS;  
NERVE AGENTS; NON-DESTRUCTIVE EVALUATION; PORTABLE  
ISOTOPIC NEUTRON SPECTROSCOPY; SPECTROSCOPY;  
TERRORISM; TREATY VERIFICATION; TRINITROTOLUENE; V  
AGENTS; VERIFICATION TECHNOLOGY; VX; WHITE  
PHOSPHORUS

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Title: US CITIES PREPARE TO DEAL WITH TERROR ATTACKS, BUT  
DRILLS POINT TO WEAKNESS IN RESCUE PLANS.  
Author(s): FIALKA, JOHN J.  
Publication Date: 19960603  
Descriptive Note: NEWSPAPER ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: THE  
WALL STREET JOURNAL, MONDAY, JUNE 3, 1996, PAGE  
A16.  
Document Classification: U  
Pages: 2  
Corporate Author: WALL STREET JOURNAL NEW YORK NY  
Abstract: EXPERTS AGREE THAT IN LIGHT OF THE TOKYO SUBWAY  
INCIDENT NO MAJOR US CITY HS PREPARED TO DEAL WITH  
A TERROR ATTACK. CHEMICAL AND BIOLOGICAL INCIDENTS  
ARE SIMPLY NOT IN THE PLAYBOOK OF MOST FIRE  
DEPARTMENTS. THE DIRECTOR OF THE CENTRAL  
INTELLIGENCE AGENCY, JOHN M. DEUTSCH, WARNS THE  
LIKELIHOOD THAT STATE OR NON-STATE ACTORS WILL  
ATTEMPT TO USE WEAPONS OF MASS DESTRUCTION AGAINST  
US INTERESTS IS GROWING. SOME SERIOUS PLANNING HAS  
BEGUN. THE FEDERAL BUREAU OF INVESTIGATION, THE  
FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), AND  
OTHER AGENCIES ARE COMPLETING A REPORT FOR  
PRESIDENT CLINTON WHICH DETAILS THE NATIONS  
ABILITY TO COUNTER USE OF SO-CALLED WEAPONS OF  
MASS DESTRUCTION BY TERRORISTS. SCHEDULED FOR  
DELIVERY NEXT MONTH, IT WILL SAY SOME FEDERAL  
AGENCIES, PRIMARILY THE DEPARTMENT OF DEFENSE, DO  
HAVE THE TRAINING AND EQUIPMENT NEEDED FOR EVENTS  
INVOLVING CHEMICAL, BIOLOGICAL OR NUCLEAR  
MATERIALS. POLITICALLY IT IS A DIFFICULT ISSUE.  
POLICE AND FIRE OFFICIALS NOW ARE THINKING ABOUT  
IT, BUT THE GENERAL PUBLIC WOULD RATHER NOT.  
BELIEVING THE US NEEDS A NEW LINE OF DEFENSE  
AGAINST TERRORISTS ARMED WITH NUCLEAR MATERIAL,  
SENATORS LUGAR AND NUNN ARE DRAFTING A BILL  
AUTHORIZING SEVERAL HUNDRED MILLION DOLLARS FOR  
UPGRADING STATE AND LOCAL READINESS.  
CBIAC Subject Keywords: BIOLOGICAL AGENTS; BIOLOGICAL WEAPONS; CB  
INCIDENTS; CB THREAT; CHEMICAL AGENTS; CHEMICAL  
WEAPONS; CIVIL DEFENSE; DETECTION; EXPLOSIONS;  
JAPAN; NEW YORK; SABOTAGE; TERRORISM  
CBIAC Identifiers (Keywords): EMERGENCY PREPAREDNESS; TOKYO SUBWAY

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Title: EMERGENCY RESPONSE TO INCIDENTS INVOLVING CHEMICAL  
AND BIOLOGICAL WARFARE AGENTS, 1995.  
Publication Date: 19950101  
Descriptive Note: HANDBOOK  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE, DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
VIRGINIA DEPARTMENT OF EMERGENCY SERVICES,  
TECHNICAL HAZARDS DIVISION, 310 TURNER ROAD,  
RICHMOND, VA 23225-6491.  
Document Classification: U  
Pages: 38

Corporate Author: VIRGINIA DEPARTMENT OF EMERGENCY SERVICES  
RICHMOND VA  
Supplementary Note: COPYRIGHT 1995, COMMONWEALTH OF VIRGINIA, UNDER THE  
PROVISIONS OF THE "INTELLECTUAL PROPERTY POLICY."  
THIS DOCUMENT MAY BE REPRODUCED BY PUBLIC SAFETY  
AGENCIES INCLUDING FIRE DEPARTMENTS, LAW  
ENFORCEMENT, EMS AND MEDICAL FACILITIES. ANY  
REPRODUCTION FOR COMMERCIAL USE MUST RECEIVE  
WRITTEN APPROVAL FROM THE VIRGINIA DEPARTMENT OF  
EMERGENCY SERVICES.  
Abstract: INTERNATIONAL TERRORISM HAS BEEN A GLOBAL ISSUE  
AND THREAT FOR MANY YEARS. THE NEWS MEDIA  
REPEATEDLY REPORT ON EVENTS THAT FOR THE MOST PART  
HAVE BEEN OCCURRING IN OTHER COUNTRIES. RECENTLY,  
TWO TERRORIST ACTS WERE PERPETRATED IN THE UNITED  
STATES. THE WORLD TRADE CENTER AND OKLAHOMA CITY  
BOMBING EXEMPLIFY A NEW THREAT WITHIN OUR BORDERS.  
THE NEW YORK ATTACK WAS CONDUCTED BY AN  
INTERNATIONAL TERRORIST GROUP AND THE OKLAHOMA  
CITY ATTACK APPEARS TO BE THE WORK OF NATIONAL  
EXTREMISTS. AS IF THE SHOCK OR EXPERIENCING THESE  
ATTACKS AT HOME WAS NOT CAUSE ENOUGH FOR INCREASED  
CONCERN, THE JUNE 1995 NERVE AGENT INCIDENT IN THE  
TOKYO SUBWAY ADDS A NEW AND TERRIFYING DIMENSION  
TO THE TERRORIST THREAT. THIS MANUAL IS INTENDED  
AS CHEMICAL AND BIOLOGICAL PRIMER. IT PRESENTS  
TECHNICAL INFORMATION REGARDING CHEMICAL AND  
BIOLOGICAL AGENTS INTEGRATED INTO EXISTING  
HAZARDOUS MATERIAL RESPONSE INCIDENT MANAGEMENT,  
TRAINING, OPERATIONS AND PLANNING PRINCIPLES.

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Title: CHEMICAL AND BIOLOGICAL TERRORISM: THE THREAT  
ACCORDING TO THE OPEN LITERATURE.  
Author(s): PURVER, RON  
Publication Date: 19950601  
Descriptive Note: SPECIAL REPORT  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: CANADIAN SECURITY  
INTELLIGENCE SERVICE, PO BOX 9732, POSTAL STATION  
T, OTTAWA, ONTARIO K1G 4G4, CANADA.  
Document Classification: U  
Pages: 212  
Corporate Author: CANADIAN SECURITY INTELLIGENCE SERVICE OTTAWA  
(ONTARIO)  
Abstract: OVER THE PAST TWO DECADES OR SO, A SMALL BODY OF  
PROFESSIONAL LITERATURE ON THE SUBJECT OF  
CHEMICAL-BIOLOGICAL TERRORISM HAS ACCUMULATED. THE  
OBJECT OF THIS PAPER IS, FIRST, TO REVIEW THE  
EXISTING BODY OF UNCLASSIFIED INFORMATION IN AN  
ATTEMPT TO ASCERTAIN HOW REAL IS THE CB TERRORIST  
THREAT; AND SECOND, TO EXAMINE THE EVOLUTION OF  
ONE, CLASSIFIED INTERGOVERNMENTAL EFFORT TO DEAL  
WITH THIS QUESTION, INCLUDING (BY WAY OF  
COMPARISON) ITS OWN CONCLUSIONS AS TO THE REALITY  
OF THE THREAT.

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CBIAC Number: CB-029739  
AD Number: D754739  
Title: THE DEVIL'S BREWS: WEAPONS OF MASS DESTRUCTION AND  
INTERNATIONAL SECURITY.  
Author(s): RANGER, ROBIN; WIENCEK, DAVID  
Publication Date: 19960618  
Descriptive Note: CONFERENCE PAPER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: THIS PAPER IS CONTAINED  
WITHIN A DOCUMENT ENTITLED THE DEVIL'S BREWS 1:  
CHEMICAL AND BIOLOGICAL WEAPONS AND THEIR DELIVERY  
SYSTEMS (CB-029681, AD-D754681), PAGES 24-32.  
Document Classification: U  
Pages: 8  
Corporate Author: LANCASTER UNIV BAILRIGG (UNITED KINGDOM)  
Supplementary Note: PAPER PRESENTED AT A SEMINAR ON CHEMICAL AND  
BIOLOGICAL WEAPONS - THEIR CONTROL, CAPABILITIES,

PROLIFERATION AND DELIVERY SYSTEMS HELD AT KING'S COLLEGE, LONDON ON 18 JANUARY 1996.

Abstract: WEAPONS OF MASS DESTRUCTION (WMD), INCLUDING NUCLEAR, BIOLOGICAL AND CHEMICAL WEAPONS, RADIOLOGICAL WEAPONS AND CONVENTIONAL WEAPONS, AND THE MEANS TO DELIVER THEM ARE THE EVER-INCREASING PRESENT THREAT. THIS THREAT IS DUE TO LESS EFFECTIVE BARRIERS TO THE PROLIFERATION OF WMD; THE ABILITY OF REGIONAL POWERS TO USE THESE IN ATTACKS AGAINST THE SUPER POWERS OF THE WORLD; AND THE INHIBITIONS ON WMD USE ASSOCIATED WITH THE COLD WAR HAVE LARGELY CEASED TO EXIST, WHILE OTHER INHIBITIONS ARE FAST ERODING. ARMS CONTROL REGIMES ALONE CANNOT CONTAIN THESE KINDS OF LEADERS. WE MAY ALSO FIND THAT OUR DETERRENCE STRATEGIES FOR HOLDING AT BAY WILL PROVE TO BE BRITTLE AT BEST. INCREASINGLY, WE MUST RELY ON MILITARY FORCES TO DEFEND AND REPEL THIS TYPE OF AGGRESSIVE INTENT AND ACTION. ANTI-MISSILE DEFENCES, IN PARTICULAR, ARE NEEDED AND OFFER THE PROSPECT THAT OUR POPULATION CENTRES AND VITAL ASSETS WILL NOT LIE COMPLETELY EXPOSED TO THE WMD MISSILE THREATS WE FACE NOW AND IN THE FUTURE.

CBIAC Subject Keywords: BIOLOGICAL WEAPONS; CB CAPABILITY; CB THREAT; CB WEAPON DELIVERY SYSTEMS; CHEMICAL WEAPONS; CHINA; CONVENTIONAL WEAPONS; COUNTERPROLIFERATION; DIPLOMACY; INTERNATIONAL SECURITY; JAPAN; MIDDLE EAST; MISSILES; NBC; NBC WEAPON ALTERNATIVES; NEGOTIATION; NUCLEAR WEAPONS; RETALIATION; TERRORISM; THREAT TYPES; UNITED STATES; USSR

CBIAC Identifiers (Keywords): WEAPONS OF MASS DESTRUCTION

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CBIAC Number: CB-029742  
AD Number: D754742  
Title: UNDERSTANDING THE MOLECULAR BASIS OF INFECTIOUS DISEASE: IMPLICATIONS FOR BIOLOGICAL WEAPONS DEVELOPMENT.  
Author(s): ALMOND, JEFFREY W.  
Publication Date: 19960118  
Descriptive Note: CONFERENCE PAPER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: THIS PAPER IS CONTAINED WITHIN A DOCUMENT ENTITLED THE DEVIL'S BREWS 1: CHEMICAL AND BIOLOGICAL WEAPONS AND THEIR DELIVERY SYSTEMS (CB-029681, AD-D754681), PAGES 39-42.  
Document Classification: U  
Pages: 4  
Corporate Author: READING UNIV (UNITED KINGDOM)  
Supplementary Note: PAPER PRESENTED AT A SEMINAR ON CHEMICAL AND BIOLOGICAL WEAPONS - THEIR CONTROL, CAPABILITIES, PROLIFERATION AND DELIVERY SYSTEMS HELD AT KING'S COLLEGE, LONDON ON 18 JANUARY 1996.  
Abstract: TECHNOLOGIES WHICH COULD BE APPLIED TO THE DEVELOPMENT OF BIOLOGICAL WEAPONS CAPABILITIES HAVE LONG BEEN WATCHED AND LIMITED. HOWEVER, WITH THE ADVENT OF GENETIC ENGINEERING, ADDITIONAL CONCERNS HAVE BEEN RAISED. IT IS APPARENT THAT THE POSSIBILITIES FOR CONSTRUCTING NEW AND POTENTIAL SINISTER VERSIONS OF MICROORGANISMS ARE ALMOST LIMITLESS. STRATEGISTS AND THOSE INVOLVED WITH THE VERIFICATION OF INTERNATIONAL TREATIES ON BW SHOULD BE AWARE OF THE POSSIBILITIES.  
CBIAC Subject Keywords: AGENT DISEASES; BIOLOGICAL AGENTS; BIOLOGICAL TREATIES AND AGREEMENTS; BIOLOGICAL WEAPONS; DNA; GENETIC ENGINEERING; INFLUENZA; INTERNATIONAL SECURITY; PATHOLOGY; RNA; TERRORISM; VIRAL DISEASES  
CBIAC Identifiers (Keywords): RECOMBINANT DNA

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Title: FIRST ANNIVERSARY OF TOKYO SUBWAY POISON GAS ATTACK: IS THE US PREPARED FOR A SIMILAR ATTACK.  
Publication Date: 19960826



Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: THE HENRY L STIMSON  
CENTER, 21 DUPONT CIRCLE NW, FIFTH FLOOR,  
WASHINGTON, DC 20036.  
Document Classification: U  
Pages: 2  
Corporate Author: HENRY L STIMSON CENTER WASHINGTON DC  
Abstract: ON MARCH 20, 1995, A JAPANESE RELIGIOUS CULT  
SHOCKED AN ENTIRE NATION BY CROSSING A PREVIOUSLY  
UNTHINKABLE LINE, USING A WEAPON OF MASS  
DESTRUCTION IN A TERRORIST ATTACK. AUM SHINRIKYO  
REWROTE THE URBAN TERRORISM HANDBOOK BY RELEASING  
THE NERVE GAS SARIN IN THE TOKYO SUBWAY, KILLING  
12 COMMUTERS, INJURING MORE THAN 5,000 AND  
TERRIFYING MILLIONS. A YEAR AFTER THIS OMINOUS  
EVENT, LITTLE HAS BEEN DONE TO AVERT A SIMILAR  
EVENT HERE. SENATORS SAM NUNN (D-GEORGIA) AND  
RICHARD LUGAR (R-INDIANA) QUICKLY RECOGNIZED THAT  
THE EVENTS IN TOKYO USHERED IN A NEW AND DANGEROUS  
AGE, ONE THAT DEMANDS A CONCENTRATED RESPONSE TO  
REDUCE THE POSSIBILITY THAT TERRORISTS WOULD USE  
SUCH WEAPONS IN THE UNITED STATES. NATIONAL POLICY  
MAKERS AND LOCAL AUTHORITIES NEED TO RECOGNIZE THE  
SERIOUSNESS OF THE THREAT OF CHEMICAL TERRORISM  
AND TAKE ACTION. LAW ENFORCEMENT OFFICIALS NEED  
TOUGHER LAWS TO OUTLAW THE ACTIVITIES LEADING UP  
TO A CHEMICAL WEAPONS ATTACK AND TO PENALIZE THE  
ASSISTANCE OF THOSE TRYING TO ACQUIRE CHEMICAL  
WEAPONS. THE PASSAGE OF SUCH LEGISLATION IS  
REQUIRED BY A 1993 INTERNATIONAL TREATY, THE  
CHEMICAL WEAPONS CONVENTION, WHICH BANS THE FULL  
RANGE OF ACTIVITIES ASSOCIATED WITH THE  
PROCUREMENT OF CHEMICAL WEAPONS.  
CBIAC Subject Keywords: BLISTER AGENTS; CB THREAT; CHEMICAL WEAPONS;  
CHEMICAL WEAPON PROLIFERATION; CIVIL DEFENSE;  
JAPAN; NERVE AGENTS; TERRORISM  
CBIAC Identifiers (Keywords): TOKYO

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Title: THE DEADLY MIXTURE: BUGS, GAS, AND TERRORISTS.  
Author(s): MCGEORGE, HARVEY J., II  
Publication Date: 19900501  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: NBC  
DEFENSE AND TECHNOLOGY INTERNATIONAL, MAY 1986,  
PAGES 56-61.  
Document Classification: U  
Pages: 6  
Corporate Author: NBC DEFENSE AND TECHNOLOGY NEW YORK NY  
Abstract: DETONATION OF A CAR BOMB FILLED WITH HIGH  
EXPLOSIVES (HE), CAN, BECAUSE OF ITS ENORMOUS  
DESTRUCTIVE POWER, HELP WIN TACTICAL OBJECTIVES OR  
GALVANIZE THE WORLD. WHY THEN SHOULD A TERRORIST  
VENTURE FROM THE SAFETY WATERS OF HE TO THE  
UNCHARTED SHOALS OF TOXIC AGENTS? WHAT TYPE OF  
TERRORIST WOULD BE ATTRACTED TO MASS DESTRUCTION  
WEAPONS? HOW FORMIDABLE AN ADVERSARY MIGHT WE FACE  
IN THE NEAR TERM, AND HOW WOULD THE USER EXPLOIT  
THIS ODIUS BRAND OF VIOLENCE? IF TERRORISM CAN BE  
VIEWED AS A VIOLENT TOOL OF PSYCHOLOGICAL WARFARE,  
WELL-SUITED TO SHORT-TERM GOAL ATTAINMENT BY THE  
MILITARILY WEAK, THEN THE TERM TERRORIST  
ENCOMPASSES A RATHER WIDE SPECTRUM OF POTENTIAL  
ADVERSARIES. THE CONSEQUENCES OF A WELL PLANNED,  
WELL EXECUTED ACT OF CB TERRORISM ARE LIKELY TO BE  
DRAMATIC. AFTER ALL, TERRORISM IS AN ADJUNCT OF  
PSYCHOLOGICAL WARFARE, DESIGNED TO EXTRACT MONEY  
OR INFLUENCE POLICY, TO FREE POLITICAL PRISONERS,  
AND TO GAIN PUBLICITY. DETERRING CB TERRORISM WILL  
DEMAND A COMBINATION OF PROACTIVE AND REACTIVE  
MEASURES. PROACTIVE EFFORTS INCLUDE INCREASING THE  
FOCUS OF INTELLIGENCE AGENCIES ON POTENTIAL  
ADVERSARIES AND MONITORING THE NEED TO DEVELOP A

CREDIBLE THREAT. THE PRINCIPLE REACTIVE MEASURE IS THE FORMATION OF A MAXIMUM CAPABILITY NATIONAL OR INTERNATIONAL QUICK RESPONSE TEAM PATTERNED AFTER THE HIGHLY SUCCESSFUL NUCLEAR EMERGENCY SEARCH TEAM (NEST) IN THE UNITED STATES.

CBIAC Subject Keywords: BIOLOGICAL AGENTS; CB THREAT; CB WEAPON DELIVERY SYSTEMS; CHEMICAL AGENTS; IRAN; IRAQ; ISRAEL; LIBYA; NERVE AGENTS; OFFENSIVE CAPABILITY; SYRIA; TERRORISM; THREAT TYPES; TOXINS

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Title: NUCLEAR, BIOLOGICAL, AND CHEMICAL DEFENSE AND TECHNOLOGY INTERNATIONAL, MAY 1986.

Publication Date: 19860501

Descriptive Note: JOURNAL

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: NUCLEAR, BIOLOGICAL, AND CHEMICAL DEFENSE AND TECHNOLOGY, 1965 BROADWAY, NEW YORK, NY 10023-5965.

Document Classification: U

Pages: 75

Corporate Author: NBC DEFENSE AND TECHNOLOGY NEW YORK NY

Abstract: THIS ISSUE OF NBC DEFENSE AND TECHNOLOGY INTERNATIONAL PRESENTS THE FOLLOWING FEATURE ARTICLES: DETERRING CHEMICAL WARFARE: THE NEXT STEP; MOBILE MISSILES: INVINCIBLE AND UNVERIFIABLE; PROTECTING AGAINST NBC WEAPONS: A SWISS VIEW; BUGS, GAS, AND TERRORISTS; INDIA'S NUCLEAR STRATEGY: A THREAT TO WORLD PEACE. THE TECHNICAL ARTICLES INCLUDE: ANTIDOTES AND PROPHYLAXIS FOR NERVE AGENT POISONING; SARATOGA: A NEW DIMENSION IN CB PROTECTIVE CLOTHING; AND SNAKE NEURO- AND NECROTIC TOXINS: POTENTIAL NEW AGENTS.

CBIAC Subject Keywords: ACTIVATED CARBON; AGENTS; BIOLOGICAL AGENTS; CB STOCKPILES; CB THREAT; CHEMICAL AGENTS; CHEMICAL TREATIES AND AGREEMENTS; CLOTHING; COLLECTIVE PROTECTION EQUIPMENT; DECONTAMINATION; DETECTION; DETECTION EQUIPMENT; FABRICS; INDIVIDUAL PROTECTION EQUIPMENT; IRAN; IRAQ; MEDICAL TREATMENT; MUNITIONS STOCKPILES; NBC; POST-TREATMENT; PRE-TREATMENT; SARATOGA; SNAKE VENOM; SWITZERLAND; TERRORISM; TOXINS; YELLOW RAIN

CBIAC Identifiers (Keywords): FOREIGN EQUIPMENT

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Title: BIOLOGICAL TERRORISM VERSUS THE AMERICAN HEALTHCARE SYSTEM. CAN WE COPE?

Author(s): BAXTER, KEVIN H.; NOLAN, LAWRENCE

Publication Date: 19960609

Descriptive Note: MISCELLANEOUS PUBLICATION

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: NATIONAL DEFENSE UNIVERSITY, INDUSTRIAL COLLEGE OF THE ARMED FORCES, WASHINGTON, DC 20319-6000.

Document Classification: U

Pages: 40

Corporate Author: NATIONAL DEFENSE UNIV WASHINGTON DC

CBIAC Subject Keywords: ANTHRAX; ARMY; BIOLOGICAL AGENT DETECTION METHODS; BIOLOGICAL AGENTS; CB THREAT; CBIAC; CENTERS FOR DISEASE CONTROL; CIVIL DEFENSE; EUROPE; HEALTH AND SAFETY; MEDICAL TREATMENT; RESEARCH AND TEST FACILITIES; SABOTAGE; SWEDEN; TERRORISM

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Title: CANADIAN SECURITY INTELLIGENCE SERVICE 1995 PUBLIC REPORT AND PROGRAM OUTLOOK.

Publication Date: 19961017

Descriptive Note: REPORT

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: CANADIAN SECURITY INTELLIGENCE SERVICE, PO BOX 9732, POSTAL STATION T, OTTAWA, ONTARIO K1G 4G4 CANADA.

Document Classification: U  
Pages: 12  
Corporate Author: CANADIAN SECURITY INTELLIGENCE SERVICE OTTAWA  
(ONTARIO)  
Abstract: THE CANADIAN SECURITY INTELLIGENCE SERVICE  
WELCOMES THE TABLING OF ITS PUBLIC REPORT IN THE  
HOUSE OF COMMONS AS A FOCAL POINT OF THE SERVICE'S  
EFFORTS TO EXPLAIN TO CANADIANS ITS ROLE IN  
MATTERS OF NATIONAL SECURITY AND PUBLIC SAFETY. AS  
A SECURITY INTELLIGENCE AGENCY WITH AN  
INVESTIGATIVE MANDATE, THE SERVICE IS CLEARLY  
CONSTRAINED IN WHAT IT CAN SAY ABOUT OPERATIONAL  
TARGETS AND TRENDS. NEVERTHELESS, THE SERVICE IS  
COMMITTED TO THE PUBLIC REPORT AS AN ESSENTIAL  
PART OF ITS ACCOUNTABILITY IN A DEMOCRATIC  
SOCIETY. MISINFORMATION ABOUT THE NATURE OF THE  
SERVICE'S MANDATE AND ACTIVITIES IS ONE OF THE  
MOST PERSISTENT PROBLEMS CSIS HAS TO DEAL WITH; IF  
LEFT UNCHALLENGED, IT CAN UNDERMINE CANADIANS'  
TRUST IN THE SERVICE'S ABILITY TO DO ITS JOB. IN  
PRESENTING THE SERVICE'S PUBLIC REPORT TO  
PARLIAMENT LAST YEAR, THE SOLICITOR GENERAL  
ADDRESSED SHIFTS IN THE GLOBAL SECURITY  
ENVIRONMENT THAT AFFECT THE SECURITY OF CANADIANS:  
THREATS THAT COME FROM GROUPS AND INDIVIDUALS AS  
MUCH AS FROM SOVEREIGN STATES AND WHICH READILY  
CROSS INTERNATIONAL BOUNDARIES; AN INCREASE IN THE  
SIGNIFICANCE OF ECONOMIC INTELLIGENCE; AND THE  
EMERGENCE OF WEAPONS PROLIFERATION AND  
TRANSNATIONAL ORGANIZED CRIME AS THREATS TO  
NATIONAL SECURITY. THIS DOCUMENT PROVIDES  
CANADIANS WITH AN UPDATE ON THOSE TRENDS, AS  
OBSERVED BY THE SERVICE DURING 1995.  
CBIAC Subject Keywords: CANADA; COUNTERTERRORISM; INTERNATIONAL SECURITY;  
LIBYA; NORTH KOREA; PROLIFERATION; RUSSIA;  
TERRORISM; WEAPONS OF MASS DESTRUCTION

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Title: ALARM SOUNDED ABOUT SECURITY OF RUSSIA'S CHEMICAL  
WEAPONS.  
Author(s): SMITHSON, AMY E.  
Publication Date: 19951002  
Descriptive Note: NEWS ADVISORY  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: THE HENRY L. STIMSON  
CENTER, 21 DUPONT CIRCLE NW, WASHINGTON, DC 20036.  
Document Classification: U  
Pages: 2  
Corporate Author: HENRY L STIMSON CENTER WASHINGTON DC  
Abstract: RUSSIA'S CHEMICAL WEAPONS STOCKPILE STORAGE SITES  
APPEAR TO BE VULNERABLE TO THEFT FROM WITHIN AND  
ATTACK FROM WITHOUT, ACCORDING TO A REPORT  
RELEASED ON OCTOBER 2, 1995 BY THE HENRY L.  
STIMSON CENTER IN WASHINGTON, DC. BASED ON  
EYEWITNESS ACCOUNTS, THE REPORT DESCRIBES THE  
SECURITY SURROUNDING RUSSIA'S 40,000 METRIC TON  
CHEMICAL WEAPONS ARSENAL - OVER 80 PERCENT OF  
WHICH IS LETHAL NERVE AGENTS - AS FALLING FAR  
SHORT OF THE SECURITY PROVISIONS TAKEN AT US  
CHEMICAL WEAPONS STORAGE SITES.  
CBIAC Subject Keywords: CHALLENGE INSPECTIONS; CHEMICAL WEAPONS; CHEMICAL  
WEAPONS CONVENTION; COMPLIANCE MONITORING; CW  
STORAGE FACILITIES; FACILITY TYPES; INTERNATIONAL  
SECURITY; NERVE AGENTS; PHYSICAL SECURITY;  
RATIFICATION; RUSSIA; SITE PERIMETER SECURITY;  
TERRORISM; TREATY VERIFICATION

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Title: CHEMICAL TERRORISM AND THE CHEMICAL WEAPONS  
CONVENTION.  
Author(s): SMITH, JUSTIN R.  
Publication Date: 19950519  
Descriptive Note: CONFERENCE PAPER  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: PUGWASH CONFERENCES OF

SCIENCE AND WORLD AFFAIRS, FLAT A MUSEUM MANSIONS,  
63A GREAT RUSSELL STREET, LONDON WC1B 3BJ,  
ENGLAND.

Document Classification: U

Pages: 3

Corporate Author: PUGWASH CONFERENCE ON SCIENCE AND WORLD AFFAIRS  
GENEVA (SWITZERLAND)

Supplementary Note: PAPER PRESENTED AT PUGWASH MEETING NO. 207, THIRD  
WORKSHOP OF THE PUGWASH STUDY GROUP ON  
IMPLEMENTATION OF THE CHEMICAL AND BIOLOGICAL  
WEAPONS CONVENTIONS 19-21 MAY 1995, NOORDWIJK, THE  
NETHERLANDS.

Abstract: THE CHEMICAL WEAPONS CONVENTION, ALTHOUGH  
PRINCIPALLY INTENDED TO PREVENT THE ACQUISITION,  
STOCKPILING, TRANSFER OR USE OF CHEMICAL WEAPONS  
BY STATES, CAN ALSO PLAY AN IMPORTANT ROLE IN  
PREVENTING THEIR USE AT A SUB-STATE LEVEL, I.E.,  
BY TERRORISTS. IN COMBINATION WITH ENHANCED  
NATIONAL LAW ENFORCEMENT EFFORTS AND INTELLIGENCE  
COLLECTION, THE CWC MAY BECOME AN IMPORTANT TOOL  
IN THE EFFORT TO COMBAT CHEMICAL TERRORISM. THIS  
PAPER PRESENTS THE PRINCIPAL WAYS IN WHICH THE CWC  
CAN HELP FIGHT CHEMICAL TERRORISM.

CBIAC Subject Keywords: CB THREAT; CHALLENGE INSPECTIONS; CHEMICAL  
INDUSTRY; CHEMICAL WEAPONS; CHEMICAL WEAPONS  
CONVENTION; DEFENSIVE CAPABILITY; IMPLEMENTATION  
LEGISLATION; INTERNATIONAL SECURITY; OPCW;  
PRECURSORS; TERRORISM

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Title: CHEMICAL AND BIOLOGICAL TERRORISM.

Publication Date: 19960814

Descriptive Note: JOURNAL ARTICLE

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
JANE'S DEFENSE WEEKLY, 26(7): 17-21, 14 AUGUST  
1996.

Document Classification: U

Pages: 6

Corporate Author: JANE'S INFORMATION GROUP ALEXANDRIA VA

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Title: SUSSEX-HARVARD ROLLING CBW CHRONOLOGY, NOVEMBER  
1995 THROUGH FEBRUARY 1996.

Author(s): ROBINSON, JULIAN PERRY

Publication Date: 19951101

Descriptive Note: JOURNAL ARTICLE

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
THIS ARTICLE IS CONTAINED WITHIN THE CHEMICAL  
WEAPONS CONVENTION BULLETIN, ISSUE NO. 31  
(CB-030400), MARCH 1996. PAGES 10-29.

Document Classification: U

Pages: 20

Corporate Author: SUSSEX UNIV BRIGHTON (UNITED KINGDOM) SCIENCE  
POLICY RESEARCH UNIT

Abstract: THIS DOCUMENT IS AN ACCOUNT OF NEWS EVENTS TAKEN  
FROM THE SUSSEX-HARVARD ROLLING CBW CHRONOLOGY  
DATING NOVEMBER 1995 THROUGH FEBRUARY 1996. THE  
CHRONOLOGY INCLUDES INFORMATION REGARDING CHEMICAL  
WEAPONS, CONFERENCE OF DISARMAMENT AND THE  
CHEMICAL WEAPONS CONVENTION FROM COUNTRIES ALL  
OVER THE WORLD.

CBIAC Subject Keywords: 3-QUINUCLIDINYL BENZILATE; AUSTRALIA; BIOLOGICAL  
WEAPONS; CB STOCKPILES; CHEMICAL WEAPONS; CHEMICAL  
WEAPONS CONVENTION; CHINA; COUNTERPROLIFERATION;  
DEMILITARIZATION; FRANCE; GULF WAR SYNDROME; IRAQ;  
ITALY; JAPAN; LIBYA; MUNITIONS STOCKPILES;  
NETHERLANDS; NORTH KOREA; NUCLEAR WEAPONS;  
PRODUCTION FACILITIES; RUSSIA; TERRORISM; TREATY  
IMPLEMENTATION; UNITED KINGDOM; UNITED NATIONS  
SPECIAL COMMISSION; UNITED STATES; US CONGRESS

CBIAC Identifiers (Keywords): TOKYO SUBWAY

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Title: SUSSEX-HARVARD ROLLING CBW CHRONOLOGY, FEBRUARY THROUGH MAY 1996.  
Author(s): ROBINSON, JULIAN PERRY  
Publication Date: 19960201  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: THIS ARTICLE IS CONTAINED WITHIN THE CHEMICAL WEAPONS CONVENTION BULLETIN, ISSUE NO. 32 (CB-030405), PAGE 16-39.  
Document Classification: U  
Pages: 24  
Corporate Author: SUSSEX UNIV BRIGHTON (UNITED KINGDOM) SCIENCE POLICY RESEARCH UNIT  
Abstract: THIS DOCUMENT IS A THREE-MONTH ROLLING CHRONOLOGY FROM THE CBW EVENTS DATABASE OF THE SUSSEX-HARVARD INFORMATION BANK. A MORE DETAILED IDENTIFICATION OF SOURCES IS PROVIDED IN THE INFORMATION BANK. THERE IS A ONE-MONTH OVERLAP IN ORDER TO ACCOMMODATE LATE-RECEIVED INFORMATION.  
CBIAC Subject Keywords: CHEMICAL WEAPONS CONVENTION; CW PRODUCTION FACILITIES; DEMILITARIZATION; ECONOMIC SANCTIONS; GULF WAR SYNDROME; INCINERATION; IRAQ; JACADS; JOHNSTON ISLAND; LIBYA; NORTH KOREA; OPCW; OPERATION DESERT SHIELD; OPERATION DESERT STORM; PERSIAN GULF WAR; PREPARATORY COMMISSION; PROLIFERATION; RATIFICATION; SOUTH KOREA; TERRORISM; UNITED KINGDOM; UNITED NATIONS; UNITED NATIONS SPECIAL COMMISSION

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Title: FBI TAKES LEAD IN DEVELOPING COUNTERTERRORISM EFFORT.  
Author(s): EMBER, LOIS R.  
Descriptive Note: JOURNAL ARTICLE  
Limitations/Availability: DISPERSAL OF DIOCTADECYLDIMETHYLAMMONIUM METHACRYLATE (DODAM) IN WATER VIA ULTRASONIC IRRADIATION YIELDED SMALL-DIAMETER VESICLES HAVING A PLACE APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: CHEMICAL & ENGINEERING NEWS, 74(45): 10-16, NOVEMBER 4, 1996.  
Document Classification: U  
Pages: 7  
Corporate Author: AMERICAN CHEMICAL SOCIETY WASHINGTON DC  
Abstract: THIS ARTICLE HIGHLIGHTS THE FEDERAL BUREAU OF INVESTIGATION (FBI) EFFORT AT THE OLYMPIC GAMES IN ATLANTA, GEORGIA AGAINST TERRORISM. THE FBI-LED CHEM/BIO COUNTERTERRORISM MODEL IS THE FOCUS OF THIS ARTICLE. AN FBI COMMAND CENTER WITH A SPECIAL AGENT IN CHARGE, A FIELD AGENT FROM THE ATLANTA FIELD OFFICE, AND A SCIENCE ADVISOR NOTIFIES THE TECHNICAL ADVISORY COUNCIL IN CASE OF A SUSPECTED ATTACK. THEY ACTIVATE THE FBI LABORATORY COORDINATOR AS WELL, WHO IN TURN COORDINATES AND OVERSEES THE SCIENCE AND TECHNOLOGY CENTER (SCITECH CENTER) ON THE CENTER FOR DISEASE CONTROL (CDC) AND PREVENTION CAMPUS IN ATLANTA. IN ADDITION, THE FBI LAB COORDINATOR DEPLOYS THE CHEM/BIO RESPONSE TEAM IF NECESSARY. THIS TEAM IS LOCATED AT DOBBINS AIR FORCE BASE IN MARIETTA, GEORGIA. THE SCITECH CENTER USES PRIMARY ANALYTICAL RESOURCES SUCH AS THE ARMY MATERIEL COMMAND TREATY LAB LOCATED IN ABERDEEN, MARYLAND (CHEMICAL WARFARE AGENTS); THE NAVY BIOLOGICAL DEFENSE RESEARCH PROGRAM LAB IN BETHESDA, MARYLAND (BIOLOGICAL WARFARE AGENTS); THE ENVIRONMENTAL PROTECTION AGENCY (HAZARDOUS MATERIALS); AND EPA'S NATIONAL ENFORCEMENT INVESTIGATIONS CENTER IN DENVER, COLORADO (HAZARDOUS MATERIALS). BACKUP/CONFIRMATORY ANALYTICAL RESOURCES INCLUDE CDC ENVIRONMENTAL HEALTH LAB (CHEMICAL WARFARE AGENTS); US ARMY MEDICAL RESEARCH INSTITUTE FOR INFECTIOUS DISEASES, FORT DETRICK, MARYLAND (BIOLOGICAL WARFARE AGENTS); AND CDC CENTER FOR INFECTIOUS

DISEASES (BIOLOGICAL WARFARE AGENTS). THIS MULTIAGENCY PARTNERSHIP SERVES AS A PROTOTYPE FOR COMBATING FUTURE CHEMICAL AND BIOLOGICAL TERRORIST ACTS.

CBIAC Subject Keywords: TERRORISM; COUNTERTERRORISM; CHEMICAL AGENTS; BIOLOGICAL AGENTS; CB THREAT; SABOTAGE; CHEMICAL ANALYSIS; CENTERS FOR DISEASE CONTROL; BOMBS; DETECTION; ASSAYS; ARMY; NAVY; AIR FORCE

CBIAC Identifiers (Keywords): FEDERAL BUREAU OF INVESTIGATION (FBI)

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Title: THE ULTIMATE NIGHTMARE. SOONER THAN MOST PEOPLE THINK, THE US MIGHT FACE THE SPECTER OF NUCLEAR, BIOLOGICAL, OR CHEMICAL TERRORISM.

Author(s): ROOS, JOHN

Descriptive Note: JOURNAL ARTICLE

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY: ARMED FORCES JOURNAL INTERNATIONAL, 133(3), OCTOBER 1995.

Document Classification: U

Pages: 3

Abstract: THIS ARTICLE DISCUSSES THE POSSIBILITY OF DOMESTIC AND INTERNATIONAL TERRORISM IN TERMS OF ITS DEVASTATING EFFECTS, THE NEED FOR "WORST-CASE" PLANNING BY US OFFICIALS, AND THE AGREEMENT BY POLITICAL AND INDEPENDENT ANALYSTS THAT IT'S ONLY A MATTER OF TIME BEFORE THE US WILL BE FORCED TO FACE THE THREAT OF NUCLEAR, BIOLOGICAL, OR CHEMICAL (NBC) TERRORISM. BASED ON NATIONAL AND CENTRAL INTELLIGENCE AGENCY (CIA) ESTIMATES, THE NBC THREAT IS A REAL POSSIBILITY. A BRIEF DESCRIPTION OF THE DEPARTMENT OF ENERGY (DOE) NUCLEAR EMERGENCY SEARCH TEAM (NEST) AND THE MANY GROUPS THAT FORM THIS TEAM IS PROVIDED. NEST CONDUCTS EMERGENCY EXERCISES, IS CONTINUALLY TESTING AND ACQUIRING SPECIAL EQUIPMENT AND SPECIAL SKILLS, AND IS ABLE TO TAILOR THEIR RESPONSE TO THE SPECIFIC EMERGENCY SITUATION. PERHAPS THE BEST THING THE US HAS AVAILABLE FOR PLANNED RESPONSE TO NUCLEAR TERRORISM IS A COORDINATED APPROACH TO THE PROBLEM. TO A SOMEWHAT LESSER DEGREE, THE SAME IS TRUE FOR RESPONDING TO CHEMICAL OR BIOLOGICAL TERRORISM. DUE TO THE EASE WITH WHICH THESE WEAPONS CAN BE PREPARED AND DELIVERED A SPECIALIZED MILITARY RESPONSE TEAM, THE ARMY'S 150-MEMBER TECHNICAL ESCORT UNIT (TEU) STANDS READY FOR WORLDWIDE DISPATCH ON SHORT NOTICE. IN RESPONSE TO AN ACTUAL CHEMICAL OR BIOLOGICAL INCIDENT, THE OFFICIAL REQUEST FOR MILITARY ASSISTANCE WOULD GO FROM LOCAL TO STATE AUTHORITIES, THEN ON TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), TO THE NATIONAL RESPONSE CENTER, ON TO THE DEPARTMENT OF DEFENSE AND DOWN TO TEU AT THE US ARMY CHEMICAL AND BIOLOGICAL COMMAND AT ABERDEEN PROVING GROUND, MD. IN SPITE OF CONSIDERABLE CAPABILITIES OF THE NEST AND TEU TO RESPOND TO A WMD ATTACK, SOME SHORTCOMINGS ARE APPARENT IN THE ANTICIPATED NATIONAL RESPONSE.

CBIAC Subject Keywords: TERRORISM; SABOTAGE; DEPARTMENT OF DEFENSE; COUNTERTERRORISM; DEPARTMENT OF ENERGY; CHEMICAL WEAPONS; BIOLOGICAL WEAPONS; NUCLEAR WEAPONS; NBC; CB THREAT; ARMY

CBIAC Identifiers (Keywords): NEST; NUCLEAR EMERGENCY SEARCH TEAM; TEU; TECHNICAL ESCORT UNIT

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Title: GOVERNMENT, INDUSTRY EFFORTS YIELD ARRAY OF TOOLS TO COMBAT TERRORISM.

Author(s): ROUNI, A. MAUREEN

Publication Date: 19950725

Descriptive Note: JOURNAL ARTICLE

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION

UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
CHEMICAL AND ENGINEERING NEWS, JULY 24, 1995.  
Document Classification: U  
Corporate Author: AMERICAN CHEMICAL SOCIETY WASHINGTON DC

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Title: THE THREAT OF CHEMICAL/BIOLOGICAL TERRORISM.  
Publication Date: 19970204  
Descriptive Note: ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: CANADIAN SECURITY  
INTELLIGENCE SERVICE, PO BOX 9732, POSTAL STATION  
T, OTTAWA, ONTARIO K1G 4G4, CANADA.  
Document Classification: U  
Pages: 8  
Corporate Author: CANADIAN SECURITY INTELLIGENCE SERVICE OTTAWA  
(ONTARIO)

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Title: IRAN AND IRAQ: THE THREAT FROM THE NORTHERN GULF.  
Author(s): CORDESMAN, ANTHONY H.  
Publication Date: 19940101  
Descriptive Note: BOOK  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. COPYRIGHTED MATERIAL. AVAILABILITY:  
WESTVIEW PRESS, 5500 CENTRAL AVENUE, BOULDER, CO  
80301-2877.  
Document Classification: U  
Pages: 380  
Corporate Author: ROYAL UNITED SERVICES INSTITUTION FOR DEFENCE  
STUDIES LONDON (UNITED KINGDOM)  
Abstract: IN THIS VOLUME, THE AUTHOR PROVIDES THE DEPTH OF  
ANALYSIS NEEDED TO FULLY COMPREHEND THE MILITARY  
CAPABILITIES OF THESE TWO VOLATILE COUNTRIES --  
RECENTLY HIGHLIGHTED BY THE U.S. SECRETARY OF  
STATE AS THE TWO MOST SERIOUS THREATS TO U.S.  
INTERESTS IN THE COMING DECADE. IN ADDITION TO  
PROVIDING A COMPREHENSIVE ASSESSMENT OF IRAN'S AND  
IRAQ'S ARMED FORCES AND WEAPONS SYSTEMS, THE  
AUTHOR EVALUATES THEIR INTERNAL POLITICAL TENSIONS  
AND CIVIL WARS, EXAMINING THE POSSIBLE FUTURE  
CONFLICTS AND A COGENT STRATEGY FOR DETERRING  
THOSE CONFLICTS OR EFFECTIVELY SUBDUING THEM.  
CBIAC Subject Keywords: IRAN; IRAQ; WEAPON SYSTEMS; DEFENSIVE CAPABILITY;  
OFFENSIVE CAPABILITY; IRAN-IRAQ WAR; CHEMICAL  
WEAPONS; BIOLOGICAL WEAPONS; NUCLEAR WEAPONS; CB  
THREAT; ARMS CONTROL POLICY; TERRORISM;  
PROJECTILES; UNITED NATIONS; UNITED NATIONS  
SPECIAL COMMISSION; OPERATION DESERT SHIELD;  
OPERATION DESERT STORM; TREATIES AND AGREEMENTS;  
CB STOCKPILES; GENEVA CONVENTION OF 1925;  
BIOLOGICAL AND TOXINS WEAPONS TREATY OF 1972;  
CHEMICAL TREATIES AND AGREEMENTS; BIOLOGICAL  
TREATIES AND AGREEMENTS; V AGENTS; NERVE AGENTS;  
TECHNOLOGY TRANSFER; H AGENTS; BLISTER AGENTS; H;  
HD; HL; L; PHOSGENE; DIPHOSGENE; CHOKING AGENTS;  
CHLOROPICRIN; HYDROGEN CYANIDE; CYANOGEN CHLORIDE;  
INCAPACITATING AGENTS; PSYCHO-TOXIC AGENTS;  
ROCKETS; CB WEAPON DELIVERY SYSTEMS; ANTHRAX; GB;  
FROG; SCUD; CLOSTRIDIUM BOTULINUM; BACILLUS  
ANTHRACIS  
CBIAC Identifiers (Keywords): PROJECT 9320; AL MUTHANNA; BASRA; KURDISH

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Title: CHEMICAL/BIOLOGICAL INCIDENT RESPONSE FORCE.  
Publication Date: 19961021  
Descriptive Note: ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED. AVAILABILITY: CHEMICAL/BIOLOGICAL  
INCIDENT RESPONSE FORCE (CBIRF), 2ND SURVEILLANCE,  
RECONNAISSANCE AND INTELLIGENCE GROUP (2ND SRIG),  
CAMP LEJEUNE, NC.  
Document Classification: U

Pages: 8  
Corporate Author: 2ND SRIG CAMP LEJEUNE NC  
Abstract: THE CHEMICAL/BIOLOGICAL INCIDENT RESPONSE FORCE (CBIRF) IS A STRATEGIC ORGANIZATION -- MANNED, TRAINED AND EQUIPPED TO COUNTER THE GROWING CHEMICAL/BIOLOGICAL TERRORIST THREAT. THIS RESPONSE FORCE WILL RESPOND TO CHEMICAL OR BIOLOGICAL INCIDENTS WORLDWIDE, WHEN DIRECTED BY THE NATIONAL COMMAND AUTHORITY, TO ASSIST LOCAL CIVILIAN AND MILITARY AGENCIES IN ORDER TO ASSIST THE ON-SCENE COMMANDER IN PROVIDING INITIAL POST INCIDENT CONSEQUENCE MANAGEMENT. THE CBIRF CAN PROVIDE EXPERT ADVICE TO THE ON-SCENE COMMANDER VIA THE ELECTRONIC REACHBACK ADVISORY GROUP. THE ADVISORY GROUP WHICH INCLUDES EIGHT NATIONALLY AND INTERNATIONALLY RECOGNIZED CIVILIAN EXPERTS IN SCIENCE AND MEDICINE, IS ALSO CHARTERED TO ASSIST WITH THE DEVELOPMENT, TRAINING AND OPERATIONS OF THE CBIRF. THE CBIRF DEPLOYS TO INCIDENT LOCATIONS BY THE MOST EXPEDITIOUS MEANS POSSIBLE, WHERE THEY WILL COORDINATE INITIAL RELIEF EFFORTS, PROVIDE SECURITY AND AREA ISOLATION AT THE AFFECTED SITE; DETECTION, IDENTIFICATION AND DECONTAMINATION; EXPERT MEDICAL ADVICE AND ASSISTANCE TO LOCAL MEDICAL AUTHORITIES; AND SERVICE SUPPORT ASSISTANCE AS REQUIRED. THOUGH THE FORCE DOES NOT HAVE A DIRECT COUNTER-TERRORIST ROLE, ITS PERSONNEL ARE HIGHLY TRAINED IN DEALING WITH THE CONSEQUENCES OF A TERRORIST CHEMICAL/BIOLOGICAL ATTACK.  
CBIAC Subject Keywords: TERRORISM; MARINE CORPS; CHEMICAL WEAPONS; BIOLOGICAL WEAPONS; RECONNAISSANCE; COUNTERTERRORISM; CHEMICAL AGENT MONITORS; DETECTION; LIQUID; VAPOR; XM21 REMOTE SENSING CHEMICAL AGENT AUTOMATIC ALARM; M9 CHEMICAL AGENT DETECTION PAPER; M256 CHEMICAL AGENT DETECTOR KIT; FUCHS NBC RECONNAISSANCE SYSTEM; DECONTAMINATION; MEDICAL TREATMENT; CASUALTIES

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Title: DEVELOPMENT AND OPERATION OF A TECHNICAL SUPPORT TEAM TO SUPPORT WAYNE COUNTY IN THE EVENT OF A TERRORIST INCIDENT INVOLVING WEAPONS OF MASS DESTRUCTION.  
Author(s): SPARKS, MARK R.  
Publication Date: 19970204  
Descriptive Note: ARTICLE  
Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED. AVAILABILITY: CERBERUS AND ASSOCIATES INC,  
Document Classification: U  
Pages: 6  
Corporate Author: CERBERUS AND ASSOCIATES INC WESTLAND MI  
Abstract: A DISASTER TRAINING EXERCISE CODE NAMED ILL RIDE WAS CONDUCTED ON SEPTEMBER 26, 1995 IN THE WAYNE COUNTY EMERGENCY OPERATING CENTER. THE EXERCISE SCENARIO WAS DESIGNED TO EVALUATE THE BOMB THREAT RESPONSE PLAN FOR DETROIT METROPOLITAN WAYNE COUNTY AIRPORT AND TO EXERCISE THE EMERGENCY OPERATIONS PLAN. OFFICIALS REPRESENTING THE EMERGENCY RESPONSE AND RECOVERY ORGANIZATION SUPPORTING WAYNE COUNTY, AND ALL MAJOR AIRPORT DEPARTMENTS, PARTICIPATED IN THE EXERCISE. THE SCENARIO CALLED FOR THE POTENTIAL OF TRUCK BOMBING TO BECOME INCREASING MORE LIKELY BEFORE AN OCCUPIED PASSENGER TERMINAL WAS COMPLETELY DESTROYED BY A BOMB BLAST. AFTER THE TERMINAL WAS DESTROYED, AND EMERGENCY RESPONSE ACTIVITIES WERE FULLY UNDERWAY, THE SCENARIO CALLED FOR AN ANONYMOUS CALLER TO ADVISE EMERGENCY MANAGERS THAT THE BOMB HAD ALSO BEEN USED TO DELIVER (DISBURSE) A BIOCHEMICAL AGENT AT THE AIRPORT. A DRAFT EXERCISE CLOSE-OUT REPORT WAS PREPARED BY THE EXERCISE EVALUATION TEAM AND DISTRIBUTED TO ALL PARTICIPANTS AFTER THE EXERCISE. COMMENTS WERE



REQUESTED. A FINAL EXERCISE CLOSE-OUT REPORT WAS SUBSEQUENTLY RELEASED. THE DRAFT AND FINAL EXERCISE CLOSE-OUT REPORT DISCUSSED THE BIOCHEMICAL THREAT AND CONCLUDED THAT THE THREAT WAS NOT EFFECTIVELY MANAGED. THE REPORT RECOMMENDED THAT THIS DEFICIENCY BE CORRECTED. IN RESPONSE, REPRESENTATIVES OF WAYNE COUNTY HEALTH DEPARTMENT AND EMERGENCY MANAGEMENT MET ON A NUMBER OF OCCASIONS TO ADDRESS AND RESOLVE THE PROBLEMS ASSOCIATED WITH THE DELIBERATE RELEASE OF BIOLOGICAL AND/OR CHEMICAL WARFARE AGENTS ON THE CIVILIAN POPULATION. THEIR CONCLUSIONS ARE CONTAINED IN THIS ARTICLE.

CBIAC Subject Keywords: TERRORISM; CHEMICAL WEAPONS; BIOLOGICAL WEAPONS;  
CB THREAT; UNITED STATES; MICHIGAN;  
COUNTERTERRORISM

CBIAC Identifiers (Keywords): WAYNE COUNTY; EMERGENCY OPERATIONS PLAN; BOMB  
THREAT RESPONSE PLAN

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AD Number: P000218

Title: NBC TRAINING REQUIREMENTS FOR THE INTEGRATED  
BATTLEFIELD.

Site Holding: DT

Author(s): HARVEY, GARY E.

Publication Date: 19820101

Descriptive Note: TECHNICAL ARTICLE

Limitations/Availability: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION  
UNLIMITED.

Document Classification: U

Pages: 8

Corporate Author: ARMY CHEMICAL SCHOOL FORT MCCLELLAN AL

Supplementary Note: THIS ARTICLE IS FROM 'PROCEEDINGS OF THE 4TH  
INTERSERVICE/INDUSTRY TRAINING EQUIPMENT  
CONFERENCE, 16-18 NOVEMBER 1982. VOLUME I,'  
AD-A122 155.

Abstract: THE UNITED STATES HAS PAID LITTLE ATTENTION TO  
NUCLEAR WARFARE, BIOLOGICAL WARFARE, AND CHEMICAL  
WARFARE IN THE LAST DECADE. MEANWHILE, THE SOVIET  
UNION INITIATED AN EXPANSION OF ITS CHEMICAL  
WARFARE PROGRAM WHICH HAS CONTINUED TO GROW AT A  
GREATER RATE THAN ANY ASPECT OF THEIR MILITARY  
FORCE. SINCE CONDUCTING TRAINING IN ONE OR ANY  
COMBINATION OF THESE THREE SPECIAL ENVIRONMENTS IS  
NOT POSSIBLE, UNITED STATES PREPAREDNESS TO FIGHT  
ON A CHEMICALLY, BIOLOGICALLY, OR NUCLEAR  
CONTAMINATED BATTLEFIELD REQUIRES THE DEVELOPMENT  
OF SPECIAL TRAINING EQUIPMENT, DEVICES, AND  
PROCEDURES WHICH SIMULATE THESE CONDITIONS AS  
REALISTICALLY AS POSSIBLE. TO ACCOMPLISH ITS  
MISSION, THE US ARMY MUST TRAIN IN PEACETIME AS IT  
WILL FIGHT IN WAR. THIS TO TRAIN IN AN NBC  
ENVIRONMENT.

CBIAC Subject Keywords: AERIAL DELIVERY SYSTEMS; AGENTS; ARMY; BIOLOGICAL  
AGENTS; BOMBS; CB THREAT; CB WEAPON DELIVERY  
SYSTEMS; CHEMICAL AGENTS; MORTARS; NBC;  
PROJECTILES; ROCKETS; TERRORISM; TOXINS; TRAINING;  
TRICHOTHECENES; TROOPS; USSR

DTIC Descriptors (Keywords): ARMY TRAINING; BATTLEFIELDS; BIOLOGICAL WARFARE  
AGENTS; CHEMICAL WARFARE AGENTS; NUCLEAR WARFARE;  
SIMULATORS; STOCKPILES; USSR; WAR GAMES;  
BIOLOGICAL WARFARE; CHEMICAL WARFARE; TRAINING  
DEVICES

DTIC Identifiers (Keywords): COMPONENT REPORTS